GENFIRE RETAIL PRICE LIST

EFFECTIVE

AUGUST, 1927

SUBJECT TO CHANGE WITHOUT NOTICE

STEEL WINDOWS

STEEL LINTELS

STEEL DOORS

GENFIRE STEEL COMPANY
YOUNGSTOWN, OHIO

No. A-557-3-5M-8-27

GENFIRE RETAIL PRICE LIST

FOR

STEEL WINDOWS

BASEMENT WINDOWS

CASEMENT WINDOWS

CASEMENT DOORS

HORIZONTALLY PIVOTED WINDOWS

COMMERCIAL PROJECTED WINDOWS

STEEL DOORS

SWING TYPES

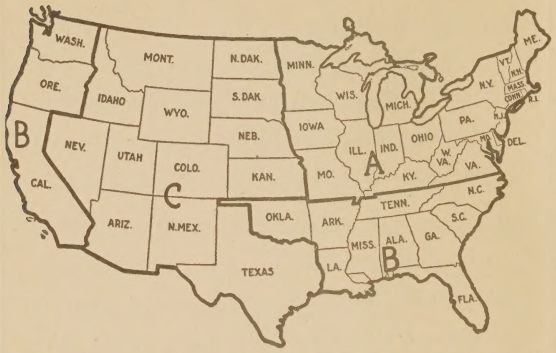
SLIDE TYPES

PRESSED STEEL FRAMES

PRESSED STEEL LINTELS

EFFECTIVE AUGUST, 1927

ZONE MAP



Retail Prices are based upon above Zones, and must be strictly adhered to in making up orders.

The destination of a shipment determines the Zone classification and price.

FREIGHT CHARGES AND SHIPPING QUANTITIES

Less than 50 items: F. O. B. Shipping Point. Freight NOT Allowed.

50 items to Carload: Freight allowed to customer's freight station, regardless of point of origin of shipment.

Basement Windows, Casement Windows, Casement Doors, Horizontally Pivoted Windows, Commercial Projected Windows, Industrial Doors, Door Frames and Lintels may be combined for pricing and shipments.

GENFIRE WAREHOUSES

ZONE "A"

Baltimore	Cincinnati	Kansas City	Norfolk
Boston	Cleveland	Milwaukee	Philadelphia
Buffalo	Detroit	Minneapolis	St. Louis
Chicago	Indianapolis	New York	Youngstown

ZONE "B"

Birmingham Jacksonville, Los Angeles, San Francisco Greensboro, New Orleans, Portland

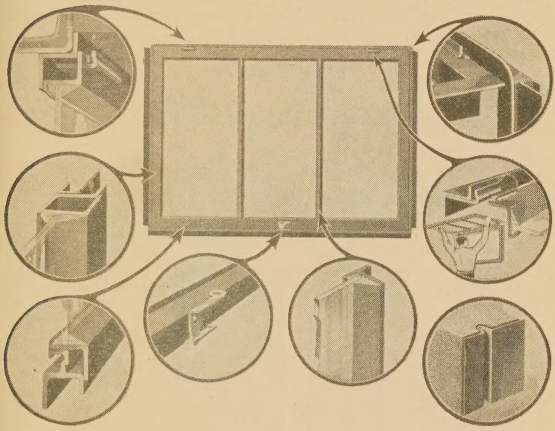
ZONE "C"

Dallas Denver Salt Lake City

STEEL BASEMENT WINDOWS

Genfire Steel Basement Windows always open and close easily, lock securely, never stick, leak or need repairs. They are permanent, durable and trim-looking in appearance.

CONSTRUCTION DETAILS



Head

Double contact weathering; overhanging drip.

Jamb

Double contact weathering; protruding fin for anchorage, inside and outside leg masonry guide.

Rigid Corners

Continuous outside frame; extremely rigid corners; windows won't distort.

Sill

Protective overhanging drip; double contact.

Hook Type Pinless Hinge

Ventilator hooks on keeper welded on frame, ventilator easily removed.

Cam Acting Latch

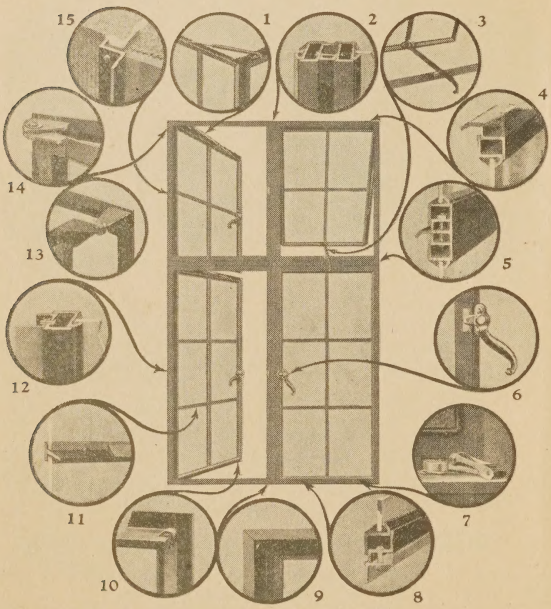
Positive lock; foolproof and easy to operate.

STEEL CASEMENT WINDOWS

Constant improvements in design and manufacture have resulted in low-priced Genfire Steel Casement Windows which are both beautiful and practical and well suited for Apartments and Residences.

They open and close easily, never stick, warp or get out of line. Moreover they open outward, offering 100% ventilation without interfering with screens or drapes within. They are fireproof and permanent—but no more expensive than the ordinary wooden window.

CONSTRUCTION DETAILS



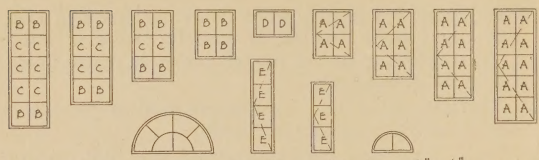
STEEL CASEMENT WINDOWS

CONSTRUCTION DETAILS

1. ADJUSTABLE FRICTION STAY holds the casement open in any desired position, is entirely concealed inside the weathering at the top of casement when closed. Shipped unattached.
2. VERTICAL MULLION. This simple mullion provides a neat panelled appearance inside.
3. STEEL PUSH BAR can be furnished with BT-114 unit (without Friction Stay and Cam Handles).
4. CONTINUOUS HEAD DRIP showing shape and proper position when attached. Its practical sturdy construction insures proper weathering and joins the units solidly together when assembled in combinations.
5. TRANSOM BAR used when two or more units are combined one above the other, forming a drip over lower sash and providing rigidity in combination of units.
6. CAM HANDLES are shipped separately. Furnished in malleable iron for both right and left hand. Solid bronze handles of same design if desired at slight extra cost.
7. FLEXO-STAY ADJUSTER, for use under screen, operates the casement from the inside without opening screen. Will hold sash open in any desired position. Standard friction stay at top is omitted when flexo-stays are used. Furnished bronze or black finish.
8. CONTINUOUS SUB-SILL SECTION provides extra weather protection at the sill and unites combinations in solid mass.
9. CORNERS OF FRAME are mitred and electrically welded with the welds inside concealed from view.
10. CORNERS OF SASH welded same as frame.
11. SPRING WIRE GLAZING CLIPS hold glass any thickness firmly in place. Provision made for bed and face putty. Outside glazing gives neat interior finish.
12. JAMB ANGLE provides secure anchorage into masonry wall construction and makes wooden frame unnecessary.
13. CLEANING HINGES are supplied if desired. Bronze bushed heavy steel pins.
14. STANDARD HEAVY HINGES are spot-welded to frame and sash. Bronze bushed heavy steel pins.
15. ANCHORED in any type of wall construction.

STEEL CASEMENT WINDOWS

GLASS SIZES



GLASS SIZES • A = 8" x 11" • B = 8¾" x 11¾" C = 8¾" x 11" • D = 8¾" x 9½" • E = 10" x 11"

—A= 8″ x 11″

—B= 8¾″ x 11¾″

—C= 8¾″ x 11″

—D= 8¾″ x 9½″

—E=10″ x 11″

For Curved Lights—Use template for Sizes.

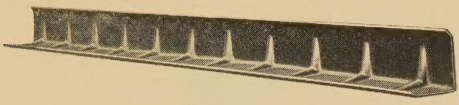
VERTICAL T MULLIONS:

The introduction of Special Vertical T Mullions instead of Standard Channel Mullions is recommended at maximum spacing of approximately 5′-0″ for all combinations of 5 units wide and over having transoms. To secure total opening width, add to any combination width, ⅛″ for each T Mullion introducted. Standard mullions are used for all other combination heights.

ASSEMBLY AND ADJUSTMENT:

Casement window units should be assembled into combinations desired before shipment is made from warehouse. Ventilators should be adjusted after erection and before glazing is started. We maintain a service department in all principal centers. Consult our District Offices for prices on erection, assembling and adjusting.

PRESSED STEEL LINTELS



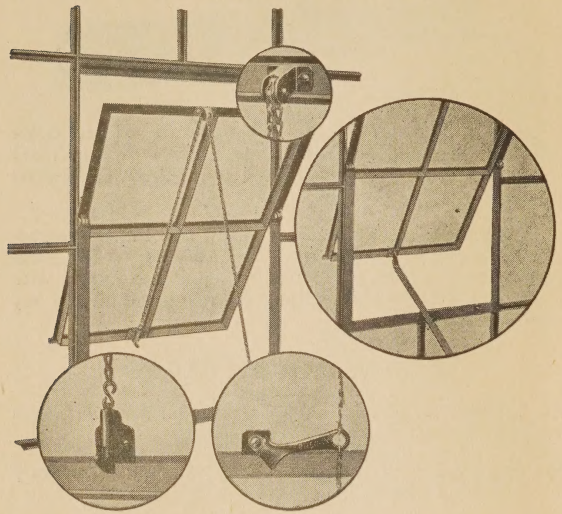
Pressed Steel Lintels are adaptable for use in either solid masonry or veneer wall construction over ordinary window and door openings. Also well suited for fireplace arches.

When used in solid masonry walls, two lintels are generally set back-to-back. It is not necessary to bolt them together. They may be used to equal advantage with wooden walls by nailing them to the sheathing at any desired height.

A FEW ADVANTAGES

1. Economical because they are standardized in seven sizes meeting nearly all requirements.
2. Speed building erection as they eliminate temporary wooden supports.
3. Carried in your local Dealer's stock they are delivered with your other masonry materials.
4. Rigidness assured by the ribs which are placed at proper intervals to give maximum strength.
5. Can be placed in the walls at the desired height, without interfering with the bonding of the masonry.
6. The turned edges give a neat appearance and furnish a bed for the mortar and brick.
7. Manufactured from rust-resisting steel, insuring permanence.
8. Dip coat of protective paint before shipment.
9. Easy to handle and install in plain openings or in connection with wooden frames.

HORIZONTALLY PIVOTED STEEL WINDOWS



MATERIAL:

All members used in the construction of Horizontally Pivoted Windows are rolled from specification steel.

CONSTRUCTION:

The outside section is of angle shape to allow 5/8" anchorage at the masonry or mullion connection. The intersection of the horizontal and vertical member is a dovetail miter, rigidly interlocking the bars. Double contact weathering is provided on all four sides of ventilator.

HARDWARE:

Push bar is standard equipment for all ventilators accessible from floor and cam handle and chain for ventilators not accessible from floor. Push bar hardware will be furnished unless otherwise specified. Spring latch and chain at top of vent furnished at slight additional cost.

PAINTING:

All windows are given one dip coat of protective paint before leaving the factory.

HORIZONTALLY PIVOTED STEEL WINDOWS

GLAZING:

Horizontally pivoted windows are glazed from the inside, each light being held in place by means of four wire glazing clips. Putty is applied in the usual way. Be sure and use Steel Window Putty as the ordinary putty will not harden satisfactorily on steel. Glazing clips, are supplied with windows but no glass or putty.

WIDTH OF STANDARD WINDOW OPENINGS

12" Glass Width	No. of Lights Wide	No. of Sash Units	Arrangement and No. of Lts. in each unit	No. of Mullions Required	14" Glass Width
	2	1	2	None	2'- 5⅝"
3'- 2"	3	1	3	None	3'- 8"
4'- 2⅜"	4	1	4	None	4'-10⅜"
5'- 2¾"	5	1	5	None	6'- 0¾"
6'- 6"	6	2	3, 3	1	7'- 6"
8'- 6¾"	8	2	4, 4	1	9'-10¾"
9'-10"	9	3	3, 3, 3	2	11'- 4"
10'- 7½"	10	2	5, 5	1	12'- 3½"
10'-10⅜"	10	3	3, 4, 3	2	12'- 6⅜"
11'-10¾"	11	3	4, 3, 4	2	13'- 8¾"
11'-10¾"	11	3	3, 5, 3	2	13'- 8¾"
12'-11⅛"	12	3	4, 4, 4	2	14'-11⅛"
13'- 2"	12	4	3, 3, 3, 3	3	15'- 2"
13'-11½"	13	3	5, 3, 5	2	16'- 1½"
13'-11½"	13	3	4, 5, 4	2	16'- 1½"
15'- 2¾"	14	4	3, 4, 4, 3	3	17'- 6¾"
16'- 0¼"	15	3	5, 5, 5	2	18'- 6¼"
16'- 6"	15	5	3, 3, 3, 3, 3,	4	19'- 0"
17'- 3½"	16	4	4, 4, 4, 4	3	19'-11½"

(Add 2" to masonry opening dimension for each mullion).

HEIGHTS OF STANDARD OPENINGS

Be sure you combine heights for 12"x18" glass with widths for 12"x18" glass also heights for 14"20" glass with widths for 14"x20" glass.

12"x18" Glass Height	No. of Lights High	14"x20" Glass Height
1'-7¼"	1	1'-9¼"
3'-1⅝"	2	3'-5⅝"
4'-8"	3	5'-2"
6'-2⅜"	4	6'-10⅜"
7'-8¾"	5	8'-6¾"
9'-3⅛"	6	10'-3⅛"
10'-9½"	7	11-11½"

HORIZONTALLY PIVOTED STEEL WINDOWS

GLASS SIZES

12"/18"	12"/18"	12"/18"	12"/18"	12"/18"
12"/18"	11"/17"	12"/17"	11"/17"	12"/18"
12"/18"	11"/17"	12"/17"	11"/17"	12"/18"
12"/18"	12"/18"	12"/18"	12"/18"	12"/18"

14"/20"	14"/20"	14"/20"	14"/20"	14"/20"
14"/20"	13"/19"	14"/19"	13"/19"	14"/20"
14"/20"	13"/19"	14"/19"	13"/19"	14"/20"
14"/20"	14"/20"	14"/20"	14"/20"	14"/20"

Designated glass sizes occur only in stationary portion of window. All lights at top and bottom of ventilators must be 1″ shorter and all lights at sides of ventilators must be 1″ narrower than in stationary portion of window.

HARDWARE

PUSH BAR:

This is standard equipment for ventilators easily accessible from the floor. The lower edge of bar is notched to engage edge of weathering member at bottom of ventilator and hold it open to any desired angle. The ventilator is securely locked by folding push bar back against Sash and engaging in a cleat.

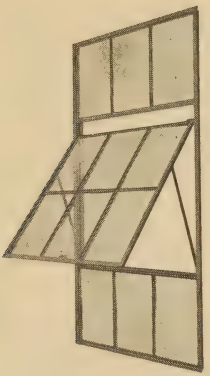
MALLEABLE CAM HANDLE AND CHAIN:

The cam handle is tapped to bracket at Sill of ventilator and securely held with a locking nut. A pull of the chain releases the cam handle and opens ventilator, which is held in any desired position by engaging chain in chain hook attached to window. The chain passes through the roller bracket at head of ventilator.

SPRING LATCH AND CHAIN:

The spring latch is bolted to the sill angle bracket which is securely riveted to Sill of ventilator. The chain passes through the roller bracket at head of ventilator, a slight pull on the chain releases the latch and opens ventilator which is held in any desired position by engaging the chain to chain hook. Required in connection with inside screens.

COMMERCIAL PROJECTED STEEL WINDOWS



MATERIAL:

All members used in the construction of Commercial Projected Windows are rolled from Specification Steel.

CONSTRUCTION:

The outside section is of angle shape to allow 5/8" anchorage at the masonry or mullion connection. The intersection of the horizontal and vertical member is a dovetail miter rigidly interlocking the bars. Double contact weathering is provided on all four sides of ventilator.

HARDWARE:

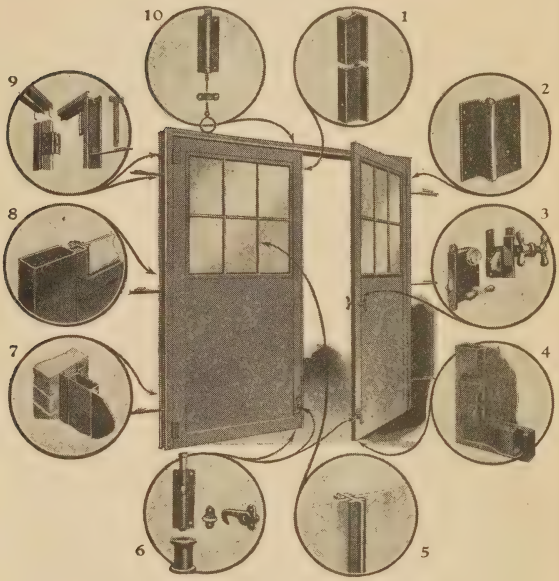
Malleable cam handle is standard equipment for all ventilators Opening Out, which are accessible from floor. Malleable lever latch is furnished for all Open In ventilators. Ventilators Opening Out and not accessible from floor are equipped with malleable cam handle and pole hook ring. Automatic chain operated spring latch with roller bracket will be furnished at slight additional cost.

PAINTING:

All windows are given one dip coat of protective paint before leaving factory.

STEEL DOORS AND FRAMES

STOCK TYPES

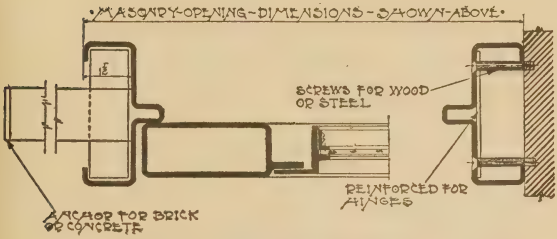


CONSTRUCTION DETAILS

1. ASTRAGAL used at meeting rail.
2. OFFSET HINGE—Reversible for in-swinging or out-swinging doors.
3. LEVER LATCH & PADLOCK (Set B.)
   MORTISE CYLINDER LOCK (Set A.)
4. INTERNAL REINFORCING of Corners.
5. MUNTIN. Glazing angles hold glass in place.
6. HOOK BACK & RING to hold doors open.
   LOCK BOLT & SOCKET for inside locking.
7. PRESSED STEEL DOOR FRAME anchored in wall construction.
8. SECTION THROUGH RAIL of door at jamb.
9. ASSEMBLING OF DOOR FRAME and Adjustable Tee Anchor.
10. CHAIN BOLT used at top of doors.

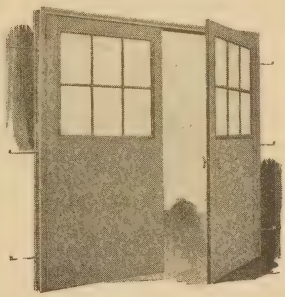
STEEL DOORS AND FRAMES

STOCK TYPES



Jamb Details—Head Similar

Single Swing



Double Swing

Single Slide

Double Slide

STEEL DOORS
STOCK TYPES

	Door No.	Size of Door		Frame Opening Inside Dimension		*Masonry Opening		Masonry Opening when used for Slide Doors		Glass Size
		Width	Height	Width	Height	Width	Height	Width	Height	
Single Doors	37	3′- 0″	7′- 0″	3′- 0⅜″	7′- 0¾″	3′- 3⅜″	7′- 2¼″	2′- 9″	6′-11¼″	12¾″x18″
	38	3′- 2⅜″	7′- 9″	3′- 2¾″	7′- 9¾″	3′- 5¾″	7′-11¼″	2′-11⅜″	7′- 8¼″	14″ x18″
	48	3′-10¾″	7′- 9″	3′-11⅛″	7′- 9¾″	4′- 2⅛″	7′-11¼″	3′- 7¾″	7′- 8¼″	12″ x18″
	510	4′-10¾″	9′- 9″	4′-11⅛″	9′- 9¾″	5′- 2⅛″	9′-11¼″	4′- 7¾″	9′- 8¼″	16″ x22″
Double Doors	67	6′- 0⅜″	7′- 0″	6′- 0¾″	7′- 0¾″	6′- 3¾″	7′- 2¼″	5′- 9⅜″	6′-11¼″	12¾″x18″
	68	6′- 5⅛″	7′- 9″	6′- 5½″	7′- 9¾″	6′- 8½″	7′-11¼″	6′- 2⅛″	7′- 8¼″	14″ x18″
	88	7′- 9⅞″	7′- 9″	7′-10¼″	7′- 9¾″	8′- 1¼″	7′-11¼″	7′- 6⅞″	7′- 8¼″	12″ x18″
	1010	9′- 9⅞″	9′- 9″	9′-10¼″	9′- 9¾″	10′- 1¼″	9′-11¼″	9′- 6⅞″	9′- 8¼″	16″ x22″

*Masonry opening dimensions apply to use of Genfire Pressed Steel Door Frames. (Write for information about them).

NOTES—By fitting leaves with proper type and arrangement of hardware they may be used for single or double swing doors or single or double slide doors.

All doors are furnished without glass; ¾″x½″ continuous glazing angles are supplied for all door lights.

Doors may also be furnished with solid steel panels instead of window in upper section for shipment from Youngstown only.

ZONE "A" PRICES

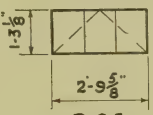
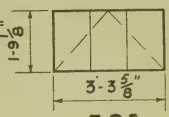
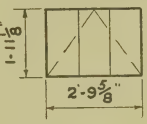
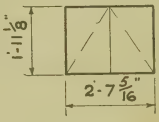
NORTHEASTERN STATES

ZONE MAP
ON PAGE 4

SHIPPING INSTRUCTIONS

Prices include freight from factory to our warehouses. Add for local freight, express or cartage on all re-shipments from warehouses, except on quantities sufficient to take freight allowed basis. See page 4.

STEEL BASEMENT WINDOWS

	ZONE "A"	
GLASS SIZE	10"x12" 	12"x18" 
PRICE	2.95	3.25
AREA	3.5	6.0
WEIGHT	20	25
GLASS SIZE	10"x20" 	14"x20" 
PRICE	3.25	3.05
AREA	5.5	5.0
WEIGHT	24	22

(Concrete Block Size)

Basement Windows are made in four sizes as shown above and are built up around standard glass sizes. No cutting of glass is necessary.

All windows are viewed from the outside.

Window dimensions cannot be varied and the arrangement of lights must be as shown above.

Ventilators are hinged at the top to swing in at the bottom. Hinges are pinless, hook type so arranged that sash may be easily removed from the inside for cleaning. The ventilator is shipped in the frame with hardware attached.

Basement Windows are glazed on the inside.

No glass or putty included. For best results glaze windows with steel window putty.

One dip coat of standard shop paint is applied at the factory.

STEEL CASEMENT WINDOWS
ZONE "A"

Prices given for Casement Windows cover all necessary units to form combinations as illustrated including all standard horizontal and vertical mullions, standard adjustable friction stays, malleable cam handles, bolts, wall anchors and glazing clips necessary to complete the combinations.

To price combinations other than shown, use unit price of any individual unit and multiply same by the number required for the combination and add for each accessory (except for standard vertical or horizontal mullions) as given on page 74.

Muntin bars may be omitted in windows shipped from factory without extra charge when specified on the order. It is not practical to omit muntin bars from units which are carried in stock by our warehouses or by dealers. All such units should be ordered from Youngstown.

Add extra for all special features required for Casement Windows as shown under Accessories, Hardware and Extras.

See page 6 for details of construction.

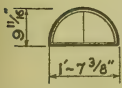
ONE LIGHT WIDE UNITS

Type CX
Price $8.75
Area 3.5
Wt. 18

Adjustable friction stays cannot be furnished with one light wide units.

Type DX
Price $9.55
Area 4.5
Wt. 22

SEMI-CIRCULAR HEADS



Type SC-1
Price $5.70
Area 2
Wt. 6

Standard Semi-Circular heads are made to match standard two and four light wide units only. Special curved or cambered head units of other dimensions or radii must be priced by Home Office and will be furnished only in connection with large orders of standard casement units and additional time must be allowed for their manufacture.

Type SC-2
Price $10.75
Area 6
Wt. 16

STEEL CASEMENT WINDOWS

ZONE "A"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	A1		A2			A3		
11 3/16"								
PRICE	1.00		2.00			3.00		
AREA	1.5		3.0			4.5		
WEIGHT	6		13			19		
TYPE	B1	B114	B2	B214	B224	B3	B314	B324
2'-1 5/16"								
PRICE	2.50	8.00	5.00	10.50	16.00	7.50	13.00	18.50
AREA	3.5	3.5	7	7	7	10.5	10.5	10.5
WEIGHT	9	17	19	27	35	29	37	45
TYPE	C1	C116	C2	C216	C226	C3	C316	C326
3-0 5/8"								
PRICE	3.20	8.80	6.40	12.00	17.60	9.60	15.20	20.80
AREA	5	5	10	10	10	15	15	15
WEIGHT	13	23	28	37	47	42	52	61
TYPE	AC1	AC116	AC2	AC216	AC226	AC3	AC316	AC326
3-11 15/16"								
PRICE	4.20	9.80	8.40	14.00	19.60	12.60	18.20	23.80
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	21	31	44	54	63	67	77	86
TYPE	D1	D118	D2	D218	D228	D3	D318	D328
3-11 15/16"								
PRICE	3.85	9.60	7.70	13.45	19.20	11.55	17.30	23.05
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	16	27	34	45	56	52	63	74
TYPE	AD1	AD118	AD2	AD218	AD228	AD3	AD318	AD328
4-11 1/4"								
PRICE	4.85	10.60	9.70	15.45	21.20	14.55	20.30	26.05
AREA	8	8	16	16	16	24	24	24
WEIGHT	24	35	51	62	73	77	88	99

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "A"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

4'-10 1/8" 3-UNITS	6'-5 1/2' 4-UNITS				WIDTH HEIGHT
	A4				TYPE 0'-11 3/16"
	4.00				PRICE
	6				AREA
	26				WEIGHT
B334	B4	B424	B424	B444	TYPE 2'-1 5/16"
24.00	10.00	21.00	21.00	32.00	PRICE
10.5	13.5	13.5	13.5	13.5	AREA
53	39	55	55	71	WEIGHT
C336	C4	C426	C426	C446	TYPE 3'-0 5/8"
26.40	12.80	24.00	24.00	35.20	PRICE
15	20	20	20	20	AREA
71	57	76	76	95	WEIGHT
AC336	AC4	AC426	AC426	AC446	TYPE 3'-11 15/16"
29.40	16.80	28.00	28.00	39.20	PRICE
19.5	26	26	26	26	AREA
96	90	109	109	128	WEIGHT
D338	D4	D428	D428	D448	TYPE 3'-11 15/16"
28.80	15.40	26.90	26.90	38.40	PRICE
19.5	26	26	26	26	AREA
85	70	92	92	114	WEIGHT
AD338	AD4	AD428	AD428	AD448	TYPE 4'-11 1/4"
31.80	19.40	30.90	30.90	42.40	PRICE
24	32	32	32	32	AREA
110	104	126	126	148	WEIGHT
	WEIGHTS SHOWN ARE NET				

STEEL CASEMENT WINDOWS

ZONE "A"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	E1	E1110	E2	E2110	E2210	E3	E3110	E3210
4'-11 1/4"								
PRICE	4.45	10.40	8.90	14.85	20.80	13.35	19.30	25.25
AREA	8	8	16	16	16	24	24	24
WEIGHT	19	32	40	53	66	61	74	87
TYPE	BC1	BC11416	BC2	BC21416	BC22426	BC3	BC31416	BC32426
5'-2 1/16"								
PRICE	5.70	16.80	11.40	22.50	33.60	17.10	28.20	39.30
AREA	8.5	8.5	17	17	17	25.5	25.5	25.5
WEIGHT	24	42	51	68	86	77	95	112
TYPE	AE1	AE1110	AE2	AE2110	AE2210	AE3	AE3110	AE3210
5'-10 9/16"								
PRICE	5.45	11.40	10.90	16.85	22.80	16.35	22.30	28.25
AREA	9.5	9.5	19	19	19	28.5	28.5	28.5
WEIGHT	27	40	56	69	82	86	99	112
TYPE	BD1	BD11418	BD2	BD21418	BD22428	BD3	BD31418	BD32428
6'-1 3/8"								
PRICE	6.35	17.60	12.70	23.95	35.20	19.05	30.30	41.55
AREA	10	10	20	20	20	30	30	30
WEIGHT	27	46	57	76	95	87	106	125
TYPE	BE1	BE114110	BE2	BE214110	BE224210	BE3	BE314110	BE324210
7'-0 11/16"								
PRICE	6.95	18.40	13.90	25.35	36.80	20.85	32.30	43.75
AREA	11.5	11.5	23	23	23	34.5	34.5	34.5
WEIGHT	30	51	63	84	105	96	117	138

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "A"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

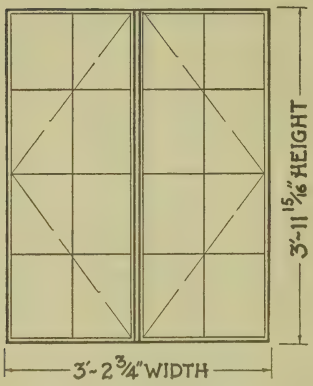
4'-10⅛" 3 UNITS	6'-5½" 4 UNITS				WIDTH / HEIGHT
E3310	E4	E4210	E4210	E4410	TYPE 4-11¼"
31.20	17.80	29.70	29.70	41.60	PRICE
24	32	32	32	32	AREA
100	82	108	108	134	WEIGHT
BC33436	BC4	BC42426	BC42426	BC44446	TYPE 5-2 1/16"
50.40	22.80	45.00	45.00	67.20	PRICE
25.5	33.5	33.5	33.5	33.5	AREA
130	104	139	139	174	WEIGHT
AE3310	AE4	AE4210	AE4210	AE4410	TYPE 5-10 9/16"
34.20	21.80	33.70	33.70	45.60	PRICE
28.5	38	38	38	38	AREA
125	115	141	141	167	WEIGHT
BD33438	BD4	BD42428	BD42428	BD44448	TYPE 6-1⅜"
52.80	25.40	47.90	47.90	70.40	PRICE
30	39.5	39.5	39.5	39.5	AREA
144	117	155	155	193	WEIGHT
BE334310	BE4	BE424210	BE424210	BE444410	TYPE 7-0 11/16"
55.20	27.80	50.70	50.70	73.60	PRICE
34.5	45.5	45.5	45.5	45.5	AREA
159	129	171	171	213	WEIGHT

WEIGHTS SHOWN ARE NET

DOUBLE STEEL CASEMENTS

(Without Mullion)

ZONE "A"



PRICE $33.00

AREA 13

Weight 34

Double Casement Units (without Vertical Mullions) are designed for use in connection with Standard Casement Units for installations requiring maximum unobstructed opening, such as exits to fire escapes. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Glass size 8"x11".

Only the above size Double Casement will be furnished.

Double Casements are made up on order only by Youngstown factory. Minimum Shipping Date, 4 weeks. See Drafting Room Standards for details.

STEEL CASEMENT WINDOW HARDWARE

ZONE "A"

Casement Window prices include the furnishing of standard adjustable friction stays and malleable cam handles for all units. Also malleable stay bars for hinged transom units when specified.

Cleaning hinges will be furnished without additional charge when specifically called for.

HARDWARE PRICES

(When Purchased Separately)

Malleable Cam Handle	List each—	$ .50
Bronze Cam Handle	List each—	1.75
Adjustable Friction Stay	List each—	1.75
Malleable Flexostay	List each—	3.25
Bronze Flexostay	List each—	5.25
Malleable Stay Bar for Transom	List each—	.50

EXTRAS

These amounts must be added to Casement Window prices when the following items are required. Do not deduct for standard hardware.

HARDWARE:

Bronze Cam Handle (instead of Malleable). List each—$1.25

Malleable Flexo-stay—
(Adjustable friction stay omitted)....List each— 1.50

Bronze Flexo-stay—
(Adjustable friction stay omitted).....List each— 3.50

JAMB ANGLES, HEAD AND SUB-SILL MEMBERS:

Complete Set for any Casement Combination

Add to price of combination.....List 10%

Add to weight of combination.....20%

When figured in large quantities or as separate items price same from list on page 74.

COPPER WEATHERSTRIP—STD. SECTION:

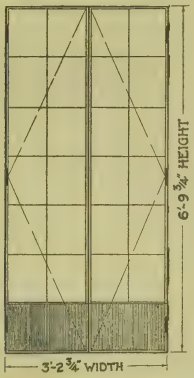
Material only, list per lin. ft..... .08

STEEL CASEMENT WINDOW ACCESSORIES
ZONE "A"

Items	Length	Price	Weight
JAMB ANGLES:			
1 light high .....each	10-15/16"	.20	1
2 lights high .....each	2' 1- 1/16"	.25	1.5
3 lights high .....each	3' 0-⅜"	.35	2.5
4 lights high .....each	3'11-11/16"	.45	3.5
5 lights high .....each	4'-11"	.55	4.0
Jamb Angles prices separately. 2 required per opening.			
SUB-SILL:			
1 light wide .....each	1'-1-1/16"	.15	1
2 lights wide .....each	1'-7⅜"	.20	1.5
4 lights wide .....each	3'-2¾"	.30	3
6 lights wide .....each	4'-10¼"	.40	5
8 lights wide .....each	6'-5½"	.45	7
Sub-Sill members are continuous.			
HORIZONTAL MULLION OR HEAD DRIP:			
1 light wide .....each	1'-1-1/16"	.20	1.5
2 lights wide .....each	1'-7⅜"	.25	2
4 lights wide .....each	3'-2¾"	.45	4
6 lights wide .....each	4'-10¼"	.65	6
8 lights wide .....each	6'-5½"	.85	8
Horizontal Mullions are required to separate units which are placed one above the other. Head Drips and Horizontal Mullions are identical and provide weathering in either capacity.			
STANDARD VERTICAL MULLION:			
1 light high .....each	10-15/16"	.15	5
2 lights high .....each	2'-1-1/16"	.20	1.0
3 lights high .....each	3'-0⅜"	.25	1.5
4 lights high .....each	3'-11-11/16"	.30	2.0
5 lights high .....each	4'-11"	.35	2.5
SPECIAL VERTICAL T MULLION:			
TAC—3 light high & 1 light transom	4'-2-1/16"	.80	5
TAD—4 light high & 1 light transom	5'-1⅜"	1.00	6
TAE—5 light high & 1 light transom	6'-0-11/16"	1.20	7
TBC—3 light high & 2 light transom	5'-4-3/16"	1.05	6
TBD—4 light high & 2 light transom	6'-3½"	1.25	7
TBE—5 light high & 2 light transom	7'-2-13/16"	1.40	8.5
TCD—4 light high & 3 light transom	7'-2-13/16"	1.40	8.5
TCE—5 light high & 3 light transom	8'-2⅛"	1.60	9.5
Special Vertical T Mullions are required for all units having transoms when the width of opening exceeds 5 units wide. Add ⅛" to opening width for each T Mullion introduced.			

STEEL CASEMENT DOORS

ZONE "A"



PRICE $80.00

AREA 22

WEIGHT 130

Casement Doors are made from the same sections, and of the same glass size as standard casement windows. This permits the use of casement windows in conjunction with casement doors as side lights and as rectangular or curved head transoms. Casement doors are appropriate for use as connecting doors for interior use or for exterior openings when locking from the interior only is desired. Keyed locks cannot be provided. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Only the above size casement door will be furnished. Casement Doors are stocked by Youngstown Warehouse only. Glass size 8"x11".

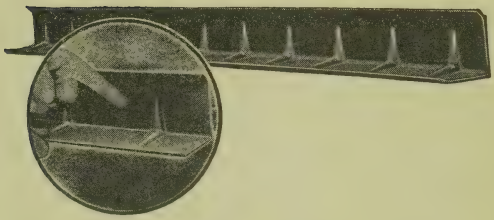
Standard 4 light wide Casement Head Drip may be used over Casement Doors. Add ⅛" to door height and price from page 74.

See Drafting Room Standards for details.

PRESSED STEEL LINTELS

Stock Sizes

ZONE "A"



Length	Price	Weight
2′6″	$ .65	7.0 lbs.
3′0″	.80	8.3 lbs.
3′6″	.90	9.7 lbs.
4′0″	1.05	11.0 lbs.
4′6″	1.15	12.0 lbs.
5′0″	1.25	13.7 lbs.
5′6″	1.40	15.0 lbs.

NOTES

Pressed Steel Lintels are suitable for masonry openings up to 4′-10″ wide except where concentrated loads occur directly over the opening.

Above prices are for single lintels.

Lintels receive one dip coat of black paint at factory.

HORIZONTALLY PIVOTED STEEL WINDOWS

ZONE "A"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

Ventilators are horizontally pivoted 2" above center.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and Putty are not included in window prices. For best results use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Spring Latch and Chain, list per vent.....$1.25

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicate types normally carried in stock by our warehouses and by Dealers. All other types are shipped from Youngstown.

HORIZONTALLY PIVOTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS			4'-2 3/8" 4-LIGHTS	
TYPE		*32	*32160	ZONE "A"	*42	42140
3'-1 5/8"						
PRICE / AREA		3.40 / 10	7.00 / 10		3.95 / 13	6.70 / 13
TYPE	23141	*33	*33161		*43	43141
4'-8"						
PRICE / AREA	6.45 / 10	4.15 / 15	7.60 / 15		5.10 / 20	7.95 / 20
TYPE		*34	*34161		44	44141
6'-2 3/8"						
PRICE / AREA		5.15 / 20	8.60 / 20		6.45 / 26	9.15 / 26
TYPE		*35	*35161	35162	45	45141
7'-8 3/4"						
PRICE / AREA		6.30 / 25	9.60 / 25	9.60 / 25	7.75 / 33	10.35 / 33
TYPE		36	36161	362614	46	46141
9'-3 1/8"						
PRICE / AREA		7.30 / 29	10.50 / 29	15.60 / 29	9.05 / 39	11.60 / 39
TYPE				372614	47	
10'-9 1/2"						
PRICE / AREA				16.80 / 34	10.60 / 45	

VERTICAL MULLIONS

NO. LTS HIGH	PRICE	AREA
2	1.00	.5
3	1.40	.8
4	1.75	1.0
5	2.15	1.3
6	2.50	1.5
7	2.90	1.8

WEIGHT FACTOR 9

HORIZONTALLY PIVOTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

4'-2 3/8" 4-LIGHTS		5'-2 3/4" 5-LIGHTS			6'-3 1/8" 6-LTS	WIDTH / HEIGHT
*42180		*52	*52160	ZONE "A"	62180	TYPE
7.80 / 13		4.55 / 16	7.95 / 16		9.10 / 20	3'-1 5/8" PRICE / AREA
*43181		53	*53161		63181	TYPE
9.05 / 20		6.05 / 24	9.40 / 24		10.75 / 29	4'-8" PRICE / AREA
*44181		54	*54161		64181	TYPE
10.20 / 26		7.60 / 32	10.80 / 32		12.40 / 39	6'-2 3/8" PRICE / AREA
*45181	45182	55	*55161	55162	65181	TYPE
11.40 / 33	11.40 / 33	9.25 / 40	12.25 / 40	12.25 / 40	14.15 / 48	7'-8 3/4" PRICE / AREA
46181	462814	56	56161	562614		TYPE
12.60 / 39	18.40 / 39	10.90 / 48	13.75 / 48	18.90 / 48		9'-3 1/8" PRICE / AREA
	472814	* INDICATES DEALER AND WAREHOUSE STOCK TYPES. DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES.		572614		TYPE
	19.85 / 45			20.55 / 56		10'-9 1/2" PRICE / AREA

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

WIDTH / HEIGHT	2'-5⅝" 2-LTS	3'-8" 3-LIGHTS			4'-10⅜" 4-LIGHTS	
TYPE		*32	*32160	ZONE "A"	*42	42140
3'-5⅝"						
PRICE / AREA		3.60 / 13	7.35 / 13		4.10 / 17	7.25 / 17
TYPE	*23141	*33	*33161		*43	43141
5'-2"						
PRICE / AREA	6.95 / 13	4.50 / 19	8.25 / 19		5.55 / 25	8.60 / 25
TYPE		*34	*34161		44	44141
6'-10⅜"						
PRICE / AREA		5.70 / 25	9.30 / 25		7.00 / 33	9.90 / 33
TYPE		*35	*35161	35162	45	45141
8'-6¾"						
PRICE / AREA		6.80 / 31	10.40 / 31	10.40 / 31	8.45 / 42	11.25 / 42
TYPE		36	36161	362614	46	46141
10'-3⅛"						
PRICE / AREA		8.00 / 38	11.50 / 38	17.05 / 38	9.95 / 50	12.65 / 50
TYPE	VERTICAL MULLIONS			372614	47	WEIGHT FACTOR 9
11'-11½"						
PRICE / AREA				18.30 / 44	11.65 / 58	

NO. LTS HIGH	PRICE	AREA
2	1.05	.6
3	1.50	.9
4	1.95	1.1
5	2.40	1.4
6	2.85	1.7
7	3.30	2.0

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			7'-3 1/8" 6-LTS	WIDTH HEIGHT
*42180		* 52	* 52160	ZONE "A"	62180	TYPE 3'-5 5/8"
8.45 17		4.90 21	8.60 21		9.80 25	PRICE AREA
*43181		53	* 53161		63181	TYPE 5'-2"
9.80 25		6.65 31	10.20 31		11.70 37	PRICE AREA
*44181		54	* 54161		64181	TYPE 6'-10 3/8"
11.05 33		8.40 42	11.80 42		13.60 50	PRICE AREA
*45181	45182	55	* 55161	55162	65181	TYPE 8'-6 3/4"
12.40 42	12.40 42	10.15 52	13.40 52	13.40 52	15.50 62	PRICE AREA
46181	462814	56	56161	562614		TYPE 10'-3 1/8"
13.75 50	20.10 50	11.90 62	15.05 62	20.60 62		PRICE AREA
	472814	* INDICATES DEALER AND WAREHOUSE STOCK TYPES. DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES.		572614		TYPE 11'-11 1/2"
	21.70 58			22.50 58		PRICE AREA

COMMERCIAL PROJECTED STEEL WINDOWS

ZONE "A"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

All 4 and 6 light ventilators Project Out and all 2 and 3 light ventilators Project In.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and putty are not included in window prices. For best results, use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Automatic Spring Latch and Chain. List per vent.....$2.50

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicates types normally carried in stock by our warehouses and by dealers. All other types are shipped from Youngstown.

Note Especially: Use same dimensions for multiple unit openings and mullion spacing as given on page 11 for Horizontally Pivoted Windows.

Nominal Glass sizes are same as shown on page 12.

COMMERCIAL PROJECTED STEEL WINDOWS

GLASS SIZE 12"x18" 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS			4'-2 3/8" 4 LTS		5'-2 3/4" 5-LIGHTS		
TYPE		32160 *	ZONE "A"		42140 *		52160 *		
3'-1 5/8" PRICE / AREA		9.80 / 10			9.55 / 13		10.75 / 16		
TYPE	23141 *	33161 *			43141 *		53161 *		
4'-8" PRICE / AREA	9.30 / 10	10.40 / 15			10.80 / 20		12.20 / 24		
TYPE		34161 *		3423602	44141 *	4422402	54161 *	5423602	
6'-2 3/8" PRICE / AREA		11.40 / 20		17.40 / 20	12.00 / 26	17.80 / 26	13.60 / 32	19.60 / 32	
TYPE		35161 *	35162	3523602 *	45141 *	4522402 *	55161 *	55162	5523602
7'-8 3/4" PRICE / AREA		12.40 / 25	12.40 / 25	18.40 / 25	13.20 / 33	19.00 / 33	15.15 / 40	15.15 / 40	21.10 / 40
TYPE		36161	362614 *	3623603	46141	4622403	56161	562614	5623603
9'-3 1/8" PRICE / AREA		13.35 / 29	21.30 / 29	19.35 / 29	14.45 / 39	20.25 / 39	16.60 / 48	24.60 / 48	22.60 / 48
TYPE		372614						572614	
10'-9 1/2" PRICE / AREA		22.50 / 34						26.35 / 56	

VERTICAL MULLIONS

NO LTS HIGH	PRICE	AREA
2	1.00	.5
3	1.40	.8
4	1.75	1.0
5	2.15	1.3
6	2.50	1.5
7	2.90	1.8

* INDICATES DEALER AND WAREHOUSE STOCK TYPES

DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES

INDICATES VENTS OPENING OUT

INDICATES VENTS OPENING IN

WEIGHT FACTOR 7.2

COMMERCIAL PROJECTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

2'-5 5/8" 2-LTS	3'-8" 3-LIGHTS			4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			WIDTH / HEIGHT
	32160 *	ZONE "A"		42140 *		52160 *			TYPE
	10.20			10.10		11.40			3'-5 5/8"
	13			17		21			PRICE / AREA
23141 *	33161 *			43141 *		53161 *			TYPE
9.75	11.10			11.45		13.05			5'-2"
13	19			25		31			PRICE / AREA
	34161 *		3423602	44141 *	4422402	54161 *	5423602		TYPE
	12.15		18.35	12.75	18.80	14.65	20.85		6'-10 3/8"
	25		25	33	33	42	42		PRICE / AREA
	35161 *	35162	3523602 *	45141 *	4522402 *	55161 *	55162	5523602	TYPE
	13.25	13.25	19.45	14.10	20.15	16.30	16.30	22.50	8'-6 3/4"
	31	31	31	42	42	52	52	52	PRICE / AREA
	36161	362614 *	3623603	46141	4622403	56161	562614	5623603	TYPE
	14.35	22.75	20.50	15.50	21.50	17.90	26.30	24.05	10'-3 1/8"
	38	38	38	50	50	62	62	62	PRICE / AREA
	372614	VERTICAL MULLIONS				572614			TYPE
		NO LTS HIGH	PRICE	AREA					11'-11 1/2"
		2	1.05	.6					
		3	1.50	.9					
		4	1.95	1.1					
		5	2.40	1.4					
	24.00	6	2.85	1.7		28.15			PRICE
	44	7	3.30	2.0		73			AREA

* INDICATES DEALER AND WAREHOUSE STOCK TYPES

DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES

▢ INDICATES VENTS OPENING OUT

▭ INDICATES VENTS OPENING IN

WEIGHT FACTOR 7.2

STEEL DOORS AND FRAMES
STOCK TYPES
ZONE "A"

All Doors are viewed from the outside.

Door dimensions, glass sizes and arrangement of lights and plate panels must not be varied from types shown.

GLAZING ANGLES: Door lights are designed for INSIDE glazing with standard glazing angles.

HARDWARE: Swing Door prices include Set A (lever latch) or Set B (cylinder lock) hardware.

Slide Door prices include Set C (hasp and staple with track, hangers and trolleys—padlock can be used but not included.) Orders must state clearly the Handing and Swinging desired and should be marked Right or Left hand to Swing In or Out for Swing Doors and the direction of Slide for Slide Doors, all as viewed from outside.

PAINT: One dip coat of standard shop paint applied at factory.

SHIPMENTS: *Indicates types normally carried in stock by our Warehouses and by Dealers. Types 38 and 68 are shipped from Youngstown only.

FRAMES: Add for pressed steel door frames when required, according to prices given on pages 86 and 87.

See Drafting Room Standards for details.

BLANK DOOR LEAVES

(When Purchased Separately—without hardware, or preparation for same).

No.	Door Size	Price	Wt.
37	3'-0" x 7'-0"	$19.25	110
38	3'- 2⅜" x 7'-9"	20.95	120
48	3'-10¾" x 7'-9"	23.90	137
510	4'-10¾" x 9'9"	35.00	200

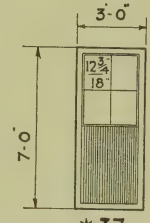
ASTRAGALS

(When Purchased Separately)

	Price	Wt.
Astragal for 7'-0" Door	$2.00	16
Astragal for 7'-9" Door	2.25	18
Astragal for 9'-9" Door	2.75	22

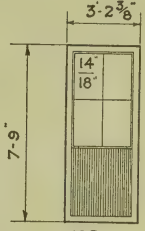
STEEL DOORS—STOCK TYPES
(Single Swing)

ZONE "A"



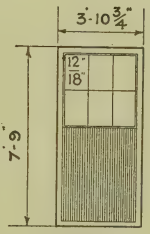
✱37

TYPE		37A	37B	37C
SWING	PRICE	27.00	38.65	
	WEIGHT	118	119	
FRAME	PRICE	12.00	12.00	
	WEIGHT	78	78	
SLIDE	PRICE			40.80
	WEIGHT			154



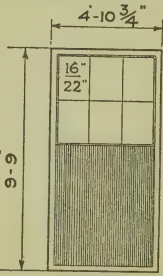
38

TYPE		38A	38B	38C
SWING	PRICE	28.70	40.35	
	WEIGHT	128	129	
FRAME	PRICE	13.20	13.20	
	WEIGHT	86	86	
SLIDE	PRICE			42.55
	WEIGHT			170



✱48

TYPE		48A	48B	48C
SWING	PRICE	31.65	43.30	
	WEIGHT	145	146	
FRAME	PRICE	13.50	13.50	
	WEIGHT	88	88	
SLIDE	PRICE			45.50
	WEIGHT			187



✱510

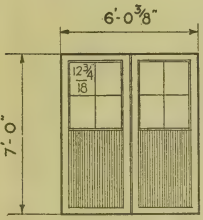
TYPE		510A	510B	510C
SWING	PRICE	44.35	61.70	
	WEIGHT	209	210	
FRAME	PRICE	15.80	15.80	
	WEIGHT	103	103	
SLIDE	PRICE			58.20
	WEIGHT			255

✱ INDICATES DEALERS AND WAREHOUSE STOCK TYPES – TYPE 38 AND 68 SHIPPED FROM YOUNGSTOWN.

HARDWARE INCLUDED IN DOOR PRICE } A INDICATES LEVER LATCH SET.
D " CYLINDER LOCK.
C " HASP & STAPLE WITH TRACK, HANGERS & TROLLEYS.

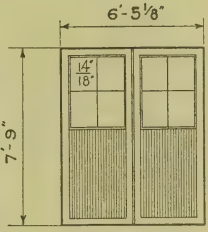
STEEL DOORS—STOCK TYPES
(Double Swing)

ZONE "A"



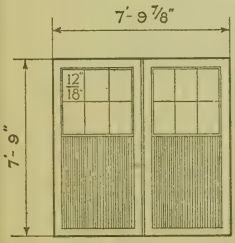
✱ 67

TYPE		67A	67B	67C
SWING	PRICE	61.25	67.05	
	WEIGHT	249	250	
FRAME	PRICE	13.65	13.65	
	WEIGHT	89	89	
SLIDE	PRICE			81.05
	WEIGHT			320



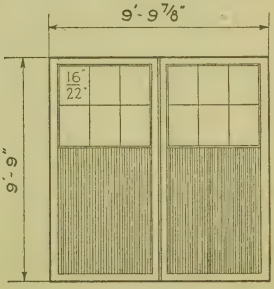
68

TYPE		68A	68B	68C
SWING	PRICE	64.90	70.90	
	WEIGHT	271	272	
FRAME	PRICE	14.90	14.90	
	WEIGHT	97	97	
SLIDE	PRICE			84.75
	WEIGHT			354



✱ 88

TYPE		88A	88B	88C
SWING	PRICE	70.70	76.50	
	WEIGHT	305	306	
FRAME	PRICE	15.40	15.40	
	WEIGHT	99	99	
SLIDE	PRICE			91.15
	WEIGHT			388



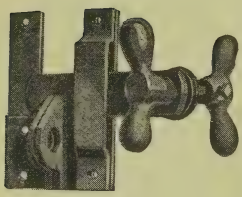
✱ 1010

TYPE		1010A	1010B	1010C
SWING	PRICE	96.50	113.45	
	WEIGHT	438	439	
FRAME	PRICE	18.15	18.15	
	WEIGHT	118	118	
SLIDE	PRICE			116.05
	WEIGHT			528

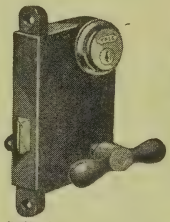
STANDARD HARDWARE FOR STEEL DOORS—STOCK TYPES

(When Purchased Separately)

ZONE "A"



Lever Latch Used in Set "A"



Cylinder Lock Used in Set "B"

Hasp and Staple Used in Set "C"

Set	Price	Wt.
37-A, 38-A, 48-A	$ 7.75	8
37-B, 38-B, 48-B	19.40	9
37-C	21.55	44
38-C, 48-C	21.60	50
510-A	9.35	9
510-B	26.70	10
510-C	23.20	55
67-A, 68-A, 88-A	20.75	13
67-B, 68-B, 88-B	26.55	14
67-C	40.55	84
68-C, 88-C	40.60	96
1010-A	23.75	16
1010-B	40.70	17
1010-C	43.30	106

The number indicates type of door the hardware is to be applied on, i. e.: 37-C Set is hardware required for 37-C door.

HARDWARE SETS

Include screws, bolts and nuts for attaching. Hardware Sets "A" have wrought steel lever latch (padlock can be used but not included). Sets "B" have mortise cylinder lock with 3 keys. Sets "C" for slide doors have hasp and staple with track, hangers and trolleys (padlock can be used but not included).

ZONE "B" PRICES

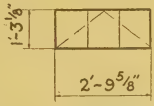
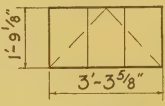
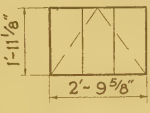
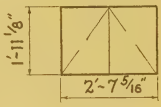
SOUTHEASTERN AND PACIFIC COAST STATES

ZONE MAP
ON PAGE 4

SHIPPING INSTRUCTIONS

Prices include freight from factory to our warehouses. Add for local freight, express or cartage on all re-shipments from warehouses, except on quantities sufficient to take freight allowed basis. See page 4.

STEEL BASEMENT WINDOWS

	ZONE "B"	
GLASS SIZE	10"x12" 	12"x18" 
PRICE	3.25	3.60
AREA	3.5	6.0
WEIGHT	20	25
GLASS SIZE	10"x20" 	14"x20" 
PRICE	3.60	3.35
AREA	5.5	5.0
WEIGHT	24	22

(Concrete Block Size)

Basement Windows are made in four sizes as shown above and are built up around standard glass sizes. No cutting of glass is necessary.

All windows are viewed from the outside.

Window dimensions cannot be varied and the arrangement of lights must be as shown above.

Ventilators are hinged at the top to swing in at the bottom. Hinges are pinless, hook type so arranged that sash may be easily removed from the inside for cleaning. The ventilator is shipped in the frame with hardware attached.

Basement Windows are glazed on the inside.

No glass or putty included. For best results glaze windows with steel window putty.

One dip coat of standard shop paint is applied at the factory.

STEEL CASEMENT WINDOWS
ZONE "B"

Prices given for Casement Windows cover all necessary units to form combinations as illustrated including all standard horizontal and vertical mullions, standard adjustable friction stays, malleable cam handles, bolts, wall anchors and glazing clips necessary to complete the combinations.

To price combinations other than shown, use unit price of any individual unit and multiply same by the number required for the combination and add for each accessory (except for standard vertical or horizontal mullions) as given on page 74.

Muntin bars may be omitted in windows shipped from factory without extra charge when specified on the order. It is not practical to omit muntin bars from units which are carried in stock by our warehouses or by dealers. All such units should be ordered from Youngstown.

Add extra for all special features required for Casement Windows as shown under Accessories, Hardware and Extras.

See page 6 for details of construction.

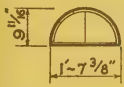
ONE LIGHT WIDE UNITS

Type CX
Price $9.10
Area 3.5
Wt. 18

Adjustable friction stays cannot be furnished with one light wide units.

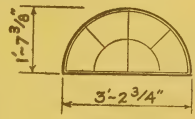
Type DX
Price $9.95
Area 4.5
Wt. 22

SEMI-CIRCULAR HEADS



Type SC-1
Price $5.80
Area 2
Wt. 6

Standard Semi-Circular heads are made to match standard two and four light wide units only. Special curved or cambered head units of other dimensions or radii must be priced by Home Office and will be furnished only in connection with large orders of standard casement units and additional time must be allowed for their manufacture.



Type SC-2
Price $11.00
Area 6
Wt. 16

STEEL CASEMENT WINDOWS

ZONE "B"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	A1		A2			A3		
11 3/16"								
PRICE	1.05		2.10			3.15		
AREA	1.5		3.0			4.5		
WEIGHT	6		13			19		
TYPE	B1	B114	B2	B214	B224	B3	B314	B324
2'-1 5/16"								
PRICE	2.60	8.30	5.20	10.95	16.65	7.80	13.55	19.25
AREA	3.5	3.5	7	7	7	10.5	10.5	10.5
WEIGHT	9	17	19	27	35	29	37	45
TYPE	C1	C116	C2	C216	C226	C3	C316	C326
3'-0 5/8"								
PRICE	3.35	9.15	6.65	12.50	18.30	10.00	15.80	21.65
AREA	5	5	10	10	10	15	15	15
WEIGHT	13	23	28	37	47	42	52	61
TYPE	AC1	AC116	AC2	AC216	AC226	AC3	AC316	AC326
3'-11 15/16"								
PRICE	4.35	10.20	8.75	14.55	20.40	13.10	18.95	24.75
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	21	31	44	54	63	67	77	86
TYPE	D1	D118	D2	D218	D228	D3	D318	D328
3'-11 15/16"								
PRICE	4.00	10.00	8.00	14.00	20.00	12.00	18.00	24.00
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	16	27	34	45	56	52	63	74
TYPE	AD1	AD118	AD2	AD218	AD228	AD3	AD318	AD328
4'-11 1/4"								
PRICE	5.05	11.00	10.10	16.05	22.05	15.15	21.10	27.10
AREA	8	8	16	16	16	24	24	24
WEIGHT	24	35	51	62	73	77	88	99

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "B"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

4'-10 1/8" 3-UNITS	6'-5 1/2" 4-UNITS				WIDTH HEIGHT
	A4				TYPE 0'-11 3/16"
	4.20				PRICE
	6				AREA
	26				WEIGHT
B334	B4	B424	B424	B444	TYPE 2'-1 5/16"
24.95	10.40	21.85	21.85	33.30	PRICE
10.5	13.5	13.5	13.5	13.5	AREA
53	39	55	55	71	WEIGHT
C336	C4	C426	C426	C446	TYPE 3'-0 5/8"
27.45	13.30	24.95	24.95	36.60	PRICE
15	20	20	20	20	AREA
71	57	76	76	95	WEIGHT
AC336	AC4	AC426	AC426	AC446	TYPE 3'-11 15/16"
30.60	17.45	29.10	29.10	40.75	PRICE
19.5	26	26	26	26	AREA
96	90	109	109	128	WEIGHT
D338	D4	D428	D428	D448	TYPE 3'-11 15/16"
29.95	16.00	28.00	28.00	39.95	PRICE
19.5	26	26	26	26	AREA
85	70	92	92	114	WEIGHT
AD338	AD4	AD428	AD428	AD448	TYPE 4'-11 1/4"
33.05	20.20	32.15	32.15	44.10	PRICE
24	32	32	32	32	AREA
110	104	126	126	148	WEIGHT

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "B"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	E1	E1110	E2	E2110	E2210	E3	E3110	E3210
4'-11 1/4"								
PRICE	4.65	10.80	9.25	15.45	21.65	13.90	20.10	26.25
AREA	8	8	16	16	16	24	24	24
WEIGHT	19	32	40	53	66	61	74	87
TYPE	BC1	BC11416	BC2	BC21416	BC22426	BC3	BC31416	BC32426
5'-2 1/16"								
PRICE	5.95	17.45	11.85	23.40	34.95	17.80	29.35	40.85
AREA	8.5	8.5	17	17	17	25.5	25.5	25.5
WEIGHT	24	42	51	68	86	77	95	112
TYPE	AE1	AE1110	AE2	AE2110	AE2210	AE3	AE3110	AE3210
5'-10 9/16"								
PRICE	5.65	11.85	11.35	17.50	23.70	17.00	23.20	29.40
AREA	9.5	9.5	19	19	19	28.5	28.5	28.5
WEIGHT	27	40	56	69	82	86	99	112
TYPE	BD1	BD11418	BD2	BD21418	BD22428	BD3	BD31418	BD32428
6'-1 3/8"								
PRICE	6.60	18.30	13.20	24.90	36.60	19.80	31.50	43.20
AREA	10	10	20	20	20	30	30	30
WEIGHT	27	46	57	76	95	87	106	125
TYPE	BE1	BE114110	BE2	BE214110	BE224210	BE3	BE314110	BE324210
7'-0 11/16"								
PRICE	7.20	19.15	14.45	26.35	38.25	21.70	33.60	45.50
AREA	11.5	11.5	23	23	23	34.5	34.5	34.5
WEIGHT	30	51	63	84	105	96	117	138

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "B"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

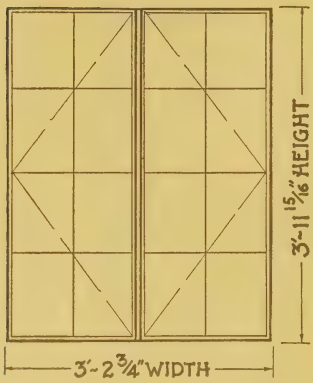
4'-10⅛" 3 UNITS	6'-5½" 4 UNITS				WIDTH / HEIGHT
E3310	E4	E4210	E4210	E4410	TYPE 4'-11¼"
32.45	18.50	30.90	30.90	43.25	PRICE
24	32	32	32	32	AREA
100	82	108	108	134	WEIGHT
BC33436	BC4	BC42426	BC42426	BC44446	TYPE 5'-2 1/16"
52.40	23.70	46.80	46.80	69.90	PRICE
25.5	33.5	33.5	33.5	33.5	AREA
130	104	139	139	174	WEIGHT
AE3310	AE4	AE4210	AE4210	AE4410	TYPE 5'-10 9/16"
35.55	22.65	35.05	35.05	47.40	PRICE
28.5	38	38	38	38	AREA
125	115	141	141	167	WEIGHT
BD33438	BD4	BD42428	BD42428	BD44448	TYPE 6'-1⅜"
54.90	26.40	49.80	49.80	73.20	PRICE
30	39.5	39.5	39.5	39.5	AREA
144	117	155	155	193	WEIGHT
BE334310	BE4	BE424210	BE424210	BE444410	TYPE 7'-0 11/16"
57.40	28.90	52.75	52.75	76.55	PRICE
34.5	45.5	45.5	45.5	45.5	AREA
159	129	171	171	213	WEIGHT

WEIGHTS SHOWN ARE NET

DOUBLE STEEL CASEMENTS

(Without Mullion)

ZONE "B"



PRICE $36.00

AREA 13

Weight 34

Double Casement Units (without Vertical Mullions) are designed for use in connection with Standard Casement Units for installations requiring maximum unobstructed opening, such as exits to fire escapes. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Glass size 8"x11".

Only the above size Double Casement will be furnished.

Double Casements are made up on order only by Youngstown factory. Minimum Shipping Date, 4 weeks. See Drafting Room Standards for details.

STEEL CASEMENT WINDOW HARDWARE

ZONE "B"

Casement Window prices include the furnishing of standard adjustable friction stays and malleable cam handles for all units. Also malleable stay bars for hinged transom units when specified.

Cleaning hinges will be furnished without additional charge when specifically called for.

HARDWARE PRICES

(When Purchased Separately)

Malleable Cam Handle	List each—	$ .50
Bronze Cam Handle	List each—	1.75
Adjustable Friction Stay	List each—	1.75
Malleable Flexostay	List each—	3.25
Bronze Flexostay	List each—	5.25
Malleable Stay Bar for Transom	List each—	.50

EXTRAS

These amounts must be added to Casement Window prices when the following items are required. Do not deduct for standard hardware.

HARDWARE:

Bronze Cam Handle (instead of Malleable). List each—$1.25

Malleable Flexo-stay—
(Adjustable friction stay omitted)....List each— 1.50

Bronze Flexo-stay—
(Adjustable friction stay omitted).....List each— 3.50

JAMB ANGLES, HEAD AND SUB-SILL MEMBERS:

Complete Set for any Casement Combination

Add to price of combination.....List 10%

Add to weight of combination.....20%

When figured in large quantities or as separate items price same from list on page 74.

COPPER WEATHERSTRIP—STD. SECTION:

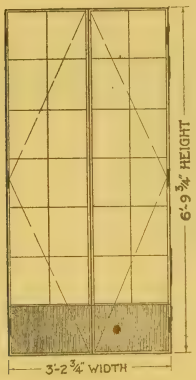
Material only, list per lin. ft..... .08

STEEL CASEMENT WINDOW ACCESSORIES
ZONE "B"

Items	Length	Price	Weight
JAMB ANGLES:			
1 light high ..... each	10-15/16"	.21	1
2 lights high ..... each	2' 1- 1/16"	.27	1.5
3 lights high ..... each	3' 0-⅜"	.39	2.5
4 lights high ..... each	3'11-11/16"	.50	3.5
5 lights high ..... each	4'-11"	.61	4.0
Jamb Angles prices separately. 2 required per opening.			
SUB-SILL:			
1 light wide ..... each	1'-1-1/16"	.18	1
2 lights wide ..... each	1'-7⅜"	.23	1.5
4 lights wide ..... each	3'-2¾"	.34	3
6 lights wide ..... each	4'-10¼"	.45	5
8 lights wide ..... each	6'-5½"	.52	7
Sub-Sill members are continuous.			
HORIZONTAL MULLION OR HEAD DRIP:			
1 light wide ..... each	1'-1-1/16"	.22	1.5
2 lights wide ..... each	1'-7⅜"	.27	2
4 lights wide ..... each	3'-2¾"	.50	4
6 lights wide ..... each	4'-10¼"	.74	6
8 lights wide ..... each	6'-5½"	.97	8
Horizontal Mullions are required to separate units which are placed one above the other. Head Drips and Horizontal Mullions are identical and provide weathering in either capacity.			
STANDARD VERTICAL MULLION:			
1 light high ..... each	10-15/16"	.16	5
2 lights high ..... each	2'-1-1/16"	.22	1.0
3 lights high ..... each	3'-0⅜"	.27	1.5
4 lights high ..... each	3'-11-11/16"	.34	2.0
5 lights high ..... each	4'-11"	.39	2.5
SPECIAL VERTICAL T MULLION:			
TAC—3 light high & 1 light transom	4'-2-1/16"	.95	5
TAD—4 light high & 1 light transom	5'-1⅜"	1.15	6
TAE—5 light high & 1 light transom	6'-0-11/16"	1.35	7
TBC—3 light high & 2 light transom	5'-4-3/16"	1.20	6
TBD—4 light high & 2 light transom	6'-3½"	1.41	7
TBE—5 light high & 2 light transom	7'-2-13/16"	1.60	8.5
TCD—4 light high & 3 light transom	7'-2-13/16"	1.60	8.5
TCE—5 light high & 3 light transom	8'-2⅛"	1.85	9.5
Special Vertical T Mullions are required for all units having transoms when the width of opening exceeds 5 units wide. Add ⅛" to opening width for each T Mullion introduced.			

STEEL CASEMENT DOORS

ZONE "B"



PRICE $83.00

AREA 22

WEIGHT 130

Casement Doors are made from the same sections, and of the same glass size as standard casement windows. This permits the use of casement windows in conjunction with casement doors as side lights and as rectangular or curved head transoms. Casement doors are appropriate for use as connecting doors for interior use or for exterior openings when locking from the interior only is desired. Keyed locks cannot be provided. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Only the above size casement door will be furnished. Casement Doors are stocked by Youngstown Warehouse only. Glass size 8"x11".

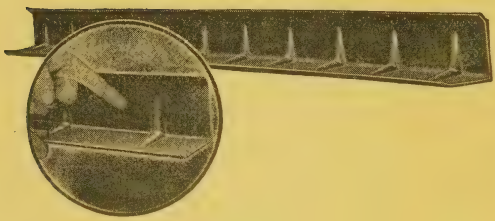
Standard 4 light wide Casement Head Drip may be used over Casement Doors. Add ⅛" to door height and price from page 74.

See Drafting Room Standards for details.

PRESSED STEEL LINTELS

Stock Sizes

ZONE "B"



Length	Price	Weight
2′6″	$ .70	7.0 lbs.
3′0″	.85	8.3 lbs.
3′6″	1.00	9.7 lbs.
4′0″	1.15	11.0 lbs.
4′6″	1.25	12.0 lbs.
5′0″	1.35	13.7 lbs.
5′6″	1.50	15.0 lbs.

NOTES

Pressed Steel Lintels are suitable for masonry openings up to 4′-10″ wide except where concentrated loads occur directly over the opening.

Above prices are for single lintels.

Lintels receive one dip coat of black paint at factory.

HORIZONTALLY PIVOTED STEEL WINDOWS

ZONE "B"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

Ventilators are horizontally pivoted 2" above center.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and Putty are not included in window prices. For best results use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Spring Latch and Chain, list per vent.....$1.25

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicate types normally carried in stock by our warehouses and by Dealers. All other types are shipped from Youngstown.

HORIZONTALLY PIVOTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS			4'-2 3/8" 4-LIGHTS	
TYPE		* 32	*32160	ZONE "B"	* 42	42140
3'-1 5/8"						
PRICE / AREA		3.75 / 10	7.70 / 10		4.40 / 13	7.45 / 13
TYPE	23141	* 33	*33161		* 43	43141
4'-8"						
PRICE / AREA	7.10 / 10	4.65 / 15	8.45 / 15		5.75 / 20	8.85 / 20
TYPE		* 34	*34161		44	44141
6'-2 3/8"						
PRICE / AREA		5.80 / 20	9.60 / 20		7.25 / 26	10.25 / 26
TYPE		* 35	*35161	35162	45	45141
7'-8 3/4"						
PRICE / AREA		7.10 / 25	10.75 / 25	10.75 / 25	8.75 / 33	11.60 / 33
TYPE		36	36161	362614	46	46141
9'-3 1/8"						
PRICE / AREA		8.25 / 29	11.80 / 29	17.25 / 29	10.25 / 39	13.05 / 39
TYPE	VERTICAL MULLIONS			372614	47	WEIGHT FACTOR 8.5
10'-9 1/2"						
PRICE / AREA				18.55 / 34	11.95 / 45	

NO. LTS HIGH	PRICE	AREA
2	1.10	.5
3	1.60	.8
4	2.00	1.0
5	2.45	1.3
6	2.85	1.5
7	3.30	1.8

HORIZONTALLY PIVOTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

4'-2 3/8" 4-LIGHTS		5'-2 3/4" 5-LIGHTS			6'-3 1/8" 6-LTS	WIDTH HEIGHT
*42180		*52	*52160	ZONE "B"	62180	TYPE
8.65 13		5.10 16	8.85 16		10.15 20	PRICE AREA
*43181		53	*53161		63181	TYPE
10.10 20		6.85 24	10.50 24		12.05 29	PRICE AREA
*44181		54	*54161		64181	TYPE
11.40 26		8.60 32	12.10 32		13.95 39	PRICE AREA
*45181	45182	55	*55161	55162	65181	TYPE
12.80 33	12.80 33	10.45 40	13.75 40	13.75 40	15.95 48	PRICE AREA
46181	462814	56	56161	562614		TYPE
14.15 39	20.35 39	12.30 48	15.50 48	21.00 48		PRICE AREA
	472814	* INDICATES DEALER AND WAREHOUSE STOCK TYPES DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES.		572614		TYPE
	21.95 45			22.90 56		PRICE AREA

WIDTH
3'-1 5/8"
4'-8"
6'-2 3/8"
7'-8 3/4"
9'-3 1/8"
10'-9 1/2"

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

WIDTH / HEIGHT	2'-5⅝" 2-LTS	3'-8" 3-LIGHTS			4'-10⅜" 4-LIGHTS	
TYPE		*32	*32160	ZONE "B"	*42	42140
3'-5⅝"						
PRICE		4.00	8.15		4.60	8.05
AREA		13	13		17	17
TYPE	*23141	*33	*33161		*43	43141
5'-2"						
PRICE	7.70	5.10	9.20		6.25	9.65
AREA	13	19	19		25	25
TYPE		*34	*34161		44	44141
6'-10⅜"						
PRICE		6.45	10.40		7.90	11.15
AREA		25	25		33	33
TYPE		*35	*35161	35162	45	45141
8'-6¾"						
PRICE		7.70	11.65	11.65	9.60	12.70
AREA		31	31	31	42	42
TYPE		36	36161	362614	46	46141
10'-3⅛"						
PRICE		9.10	12.90	18.90	11.30	14.30
AREA		38	38	38	50	50
TYPE				372614	47	
11'-11½"						
PRICE				20.25	13.15	
AREA				44	58	

VERTICAL MULLIONS

NO. LTS HIGH	PRICE	AREA
2	1.20	.6
3	1.70	.9
4	2.20	1.1
5	2.70	1.4
6	3.20	1.7
7	3.75	2.0

WEIGHT FACTOR 8.5

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			7'-3 1/8" 6-LTS	WIDTH / HEIGHT
*42180		*52	*52160	ZONE "B"	62180	TYPE 3'-5 5/8"
9.40 / 17		5.55 / 21	9.60 / 21		11.00 / 25	PRICE / AREA
*43181		53	*53161		63181	TYPE 5'-2"
10.95 / 25		7.50 / 31	11.45 / 31		13.15 / 37	PRICE / AREA
*44181		54	*54161		64181	TYPE 6'-10 3/8"
12.40 / 33		9.50 / 42	13.30 / 42		15.35 / 50	PRICE / AREA
*45181	45182	55	*55161	55162	65181	TYPE 8'-6 3/4"
13.95 / 42	13.95 / 42	11.50 / 52	15.10 / 52	15.10 / 52	17.50 / 62	PRICE / AREA
46181	462814	56	56161	562614		TYPE 10'-3 1/8"
15.55 / 50	22.35 / 50	13.50 / 62	17.00 / 62	23.00 / 62		PRICE / AREA
	472814	* INDICATES DEALER AND WAREHOUSE STOCK TYPES. DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES.		572614		TYPE 11'-11 1/2"
	24.10 / 58			25.10 / 58		PRICE / AREA

COMMERCIAL PROJECTED STEEL WINDOWS

ZONE "B"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

All 4 and 6 light ventilators Project Out and all 2 and 3 light ventilators Project In.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and putty are not included in window prices. For best results, use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Automatic Spring Latch and Chain. List per vent.....$2.50

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicates types normally carried in stock by our warehouses and by dealers. All other types are shipped from Youngstown.

Note Especially: Use same dimensions for multiple unit openings and mullion spacing as given on page 11 for Horizontally Pivoted Windows.

Nominal Glass sizes are same as shown on page 12.

COMMERCIAL PROJECTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS		4'-2 3/8" 4 LTS		5'-2 3/4" 5-LIGHTS	
TYPE		32160 *	ZONE "B"	42140 *		52160 *	* INDICATES DEALER AND WAREHOUSE STOCK TYPES
3'-1 5/8" PRICE / AREA		10.50 / 10		10.30 / 13		11.65 / 16	DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES
TYPE	23141 *	33161 *		43141 *		53161 *	INDICATES VENTS OPENING OUT
4'-8" PRICE / AREA	9.95 / 10	11.25 / 15		11.70 / 20		13.35 / 24	INDICATES VENTS OPENING IN
TYPE		34161 *	3423602	44141 *	4422402	54161 *	5423602
6'-2 3/8" PRICE / AREA		12.40 / 20	18.60 / 20	13.10 / 26	19.05 / 26	14.95 / 32	21.15 / 32
TYPE		35161 *	35162 / 3523602 *	45141 *	4522402 *	55161 *	55162 / 5523602
7'-8 3/4" PRICE / AREA		13.55 / 25	13.55 / 25 / 19.75 / 25	14.45 / 33	20.40 / 33	16.65 / 40	16.65 / 40 / 22.85 / 40
TYPE		36161	362614 * / 3623603	46141	4622403	56161	562614 / 5623603
9'-3 1/8" PRICE / AREA		14.65 / 29	22.95 / 29 / 20.85 / 29	15.90 / 39	21.85 / 39	18.35 / 48	26.70 / 48 / 24.50 / 48
TYPE		372614				572614	
10'-9 1/2" PRICE / AREA		24.25 / 34				28.60 / 56	

VERTICAL MULLIONS

NO LTS HIGH	PRICE	AREA
2	1.10	.5
3	1.60	.8
4	2.00	1.0
5	2.45	1.3
6	2.85	1.5
7	3.30	1.8

WEIGHT FACTOR 6.6

COMMERCIAL PROJECTED STEEL WINDOWS

GLASS SIZE 14"x20" 14"x20"

2'-5 5/8" 2-LTS	3'-8" 3-LIGHTS			4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			WIDTH / HEIGHT
	32160 *	ZONE "B"		42140 *		52160 *			TYPE
	11.00 13			10.90 17		12.45 21			3'-5 5/8" PRICE AREA
23141 *	33161 *			43141 *		53161 *			TYPE
10.50 13	12.05 19			12.50 25		14.30 31			5'-2" PRICE AREA
	34161 *		3423602	44141 *	4422402	54161 *	5423602		TYPE
	13.30 25		19.70 25	14.00 33	20.20 33	16.15 42	22.55 42		6'-10 3/8" PRICE AREA
	35161 *	35162	3523602 *	45141 *	4522402 *	55161 *	55162	5523602	TYPE
	14.50 31	14.50 31	20.95 31	15.55 42	21.75 42	18.05 52	18.05 52	24.45 52	8'-6 3/4" PRICE AREA
	36161	362614 *	3623603	46141	4622403	56161	562614	5623603	TYPE
	15.75 38	24.60 38	22.16 38	17.15 50	23.30 50	19.85 62	28.65 62	26.25 62	10'-3 1/8" PRICE AREA
	372614	VERTICAL MULLIONS				572614	WEIGHT FACTOR 6.6		TYPE
	25.95 44	NO LTS HIGH	PRICE	AREA		30.80 73			11'-11 1/2" PRICE AREA
		2	1.20	.6					
		3	1.70	.9					
		4	2.20	1.1					
		5	2.70	1.4					
		6	3.20	1.7					
		7	3.75	2.0					

* INDICATES DEALER AND WAREHOUSE STOCK TYPES

DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES

INDICATES VENTS OPENING OUT

INDICATES VENTS OPENING IN

STEEL DOORS AND FRAMES
STOCK TYPES
ZONE "B"

All Doors are viewed from the outside.

Door dimensions, glass sizes and arrangement of lights and plate panels must not be varied from types shown.

GLAZING ANGLES: Door lights are designed for INSIDE glazing with standard glazing angles.

HARDWARE: Swing Door prices include Set A (lever latch) or Set B (cylinder lock) hardware.

Slide Door prices include Set C (hasp and staple with track, hangers and trolleys—padlock can be used but not included.) Orders must state clearly the Handing and Swinging desired and should be marked Right or Left hand to Swing In or Out for Swing Doors and the direction of Slide for Slide Doors, all as viewed from outside.

PAINT: One dip coat of standard shop paint applied at factory.

SHIPMENTS: *Indicates types normally carried in stock by our Warehouses and by Dealers. Types 38 and 68 are shipped from Youngstown only.

FRAMES: Add for pressed steel door frames when required, according to prices given on pages 86 and 87.

See Drafting Room Standards for details.

BLANK DOOR LEAVES

(When Purchased Separately—without hardware, or preparation for same).

No.	Door Size	Price	Wt.
37	3'-0" x 7'-0"	$20.60	110
38	3'- 2⅜" x 7'-9"	22.45	120
48	3'-10¾" x 7'-9"	25.60	137
510	4'-10¾" x 9'9"	37.50	200

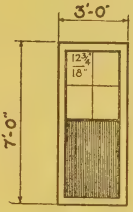
ASTRAGALS

(When Purchased Separately)

	Price	Wt.
Astragal for 7'-0" Door	$2.15	16
Astragal for 7'-9" Door	2.45	18
Astragal for 9'-9" Door	3.00	22

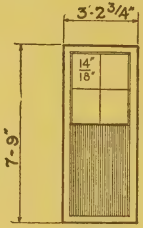
STEEL DOORS—STOCK TYPES
(Single Swing)

ZONE "B"



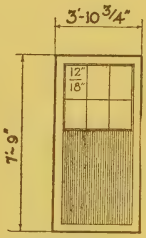
✱ 37

TYPE		37A	37B	37C
SWING	PRICE	28.45	40.15	
	WEIGHT	118	119	
FRAME	PRICE	13.00	13.00	
	WEIGHT	78	78	
SLIDE	PRICE			42.65
	WEIGHT			154



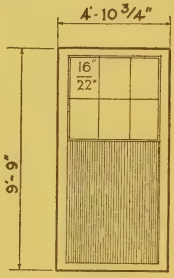
38

TYPE		38A	38B	38C
SWING	PRICE	30.30	42.00	
	WEIGHT	128	129	
FRAME	PRICE	14.30	14.30	
	WEIGHT	86	86	
SLIDE	PRICE			44.55
	WEIGHT			170



✱ 48

TYPE		48A	48B	48C
SWING	PRICE	33.45	45.15	
	WEIGHT	145	146	
FRAME	PRICE	14.60	14.60	
	WEIGHT	88	88	
SLIDE	PRICE			47.70
	WEIGHT			187



✱ 510

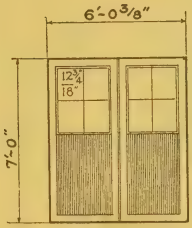
TYPE		510A	510B	510C
SWING	PRICE	47.00	64.35	
	WEIGHT	209	210	
FRAME	PRICE	17.10	17.10	
	WEIGHT	103	103	
SLIDE	PRICE			61.40
	WEIGHT			255

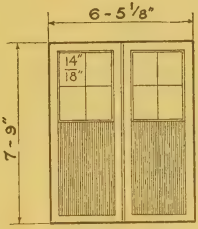
✱ INDICATES DEALERS AND WAREHOUSE STOCK TYPES — TYPE 38 AND 68 SHIPPED FROM YOUNGSTOWN

HARDWARE INCLUDED IN DOOR PRICE } A INDICATES LEVER LATCH SET
B CYLINDER LOCK
C HASP & STAPLE WITH TRACK HANGERS & TROLLEYS

STEEL DOORS—STOCK TYPES
(Double Swing)

ZONE "B"



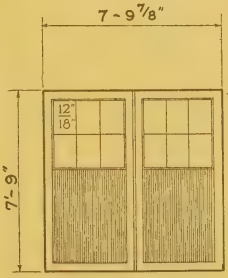


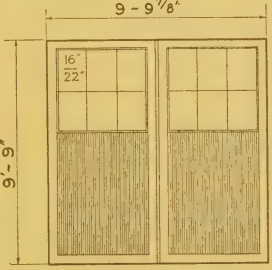
✱67

TYPE		67A	67B	67C
SWING	PRICE	64.25	70.05	
	WEIGHT	249	250	
FRAME	PRICE	14.75	14.75	
	WEIGHT	89	89	
SLIDE	PRICE			84.95
	WEIGHT			320

68

TYPE		68A	68B	68C
SWING	PRICE	68.25	74.05	
	WEIGHT	271	272	
FRAME	PRICE	16.10	16.10	
	WEIGHT	97	97	
SLIDE	PRICE			89.00
	WEIGHT			354





✱88

TYPE		88A	88B	88C
SWING	PRICE	74.55	80.35	
	WEIGHT	305	306	
FRAME	PRICE	16.65	16.65	
	WEIGHT	99	99	
SLIDE	PRICE			95.85
	WEIGHT			388

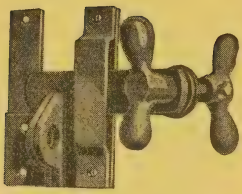
✱1010

TYPE		1010A	1010B	1010C
SWING	PRICE	101.95	118.95	
	WEIGHT	438	439	
FRAME	PRICE	19.65	19.65	
	WEIGHT	118	118	
SLIDE	PRICE			122.60
	WEIGHT			528

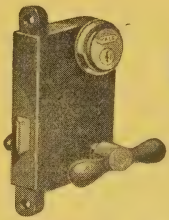
STANDARD HARDWARE FOR STEEL DOORS—STOCK TYPES

(When Purchased Separately)

ZONE "B"



Lever Latch
Used in Set "A"



Cylinder Lock
Used in Set "B"

Hasp and Staple
Used in Set "C"

Set	Price	Wt.
37-A, 38-A, 48-A	$ 7.85	8
37-B, 38-B, 48-B	19.55	9
37-C	22.05	44
38-C, 48-C	22.10	50
510-A	9.50	9
510-B	26.85	10
510-C	23.90	55
67-A, 68-A, 88-A	20.90	13
67-B, 68-B, 88-B	26.70	14
67-C	41.60	84
68-C, 88-C	41.65	96
1010-A	23.95	16
1010-B	40.95	17
1010-C	44.60	106

The number indicates type of door the hardware is to be applied on, i. e.: 37-C Set is hardware required for 37-C door.

HARDWARE SETS

Include screws, bolts and nuts for attaching. Hardware Sets "A" have wrought steel lever latch (padlock can be used but not included). Sets "B" have mortise cylinder lock with 3 keys. Sets "C" for slide doors have hasp and staple with track, hangers and trolleys (padlock can be used but not included).

ZONE "C" PRICES

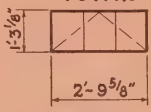
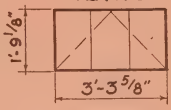
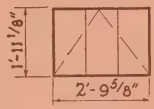
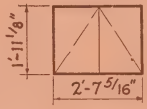
MIDDLE WEST STATES

ZONE MAP
ON PAGE 4

SHIPPING INSTRUCTIONS

Prices include freight from factory to our warehouses. Add for local freight, express or cartage on all re-shipments from warehouses, except on quantities sufficient to take freight allowed basis. See page 4.

STEEL BASEMENT WINDOWS

	ZONE "C"	
GLASS SIZE	10"x12" 	12"x18" 
PRICE	3.40	3.75
AREA	3.5	6.0
WEIGHT	20	25
GLASS SIZE	10"x20" 	14"x20" 
PRICE	3.75	3.50
AREA	5.5	5.0
WEIGHT	24	22

(Concrete Block Size)

Basement Windows are made in four sizes as shown above and are built up around standard glass sizes. No cutting of glass is necessary.

All windows are viewed from the outside.

Window dimensions cannot be varied and the arrangement of lights must be as shown above.

Ventilators are hinged at the top to swing in at the bottom. Hinges are pinless, hook type so arranged that sash may be easily removed from the inside for cleaning. The ventilator is shipped in the frame with hardware attached.

Basement Windows are glazed on the inside.

No glass or putty included. For best results glaze windows with steel window putty.

One dip coat of standard shop paint is applied at the factory.

STEEL CASEMENT WINDOWS

ZONE "C"

Prices given for Casement Windows cover all necessary units to form combinations as illustrated including all standard horizontal and vertical mullions, standard adjustable friction stays, malleable cam handles, bolts, wall anchors and glazing clips necessary to complete the combinations.

To price combinations other than shown, use unit price of any individual unit and multiply same by the number required for the combination and add for each accessory (except for standard vertical or horizontal mullions) as given on page 74.

Muntin bars may be omitted in windows shipped from factory without extra charge when specified on the order. It is not practical to omit muntin bars from units which are carried in stock by our warehouses or by dealers. All such units should be ordered from Youngstown.

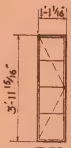
Add extra for all special features required for Casement Windows as shown under Accessories, Hardware and Extras.

See page 6 for details of construction.

ONE LIGHT WIDE UNITS

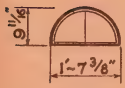
Type CX
Price $9.30
Area 3.5
Wt. 18

Adjustable friction stays cannot be furnished with one light wide units.



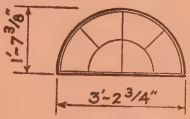
Type DX
Price $10.15
Area 4.5
Wt. 22

SEMI-CIRCULAR HEADS



Type SC-1
Price $5.85
Area 2
Wt. 6

Standard Semi-Circular heads are made to match standard two and four light wide units only. Special curved or cambered head units of other dimensions or radii must be priced by Home Office and will be furnished only in connection with large orders of standard casement units and additional time must be allowed for their manufacture.



Type SC-2
Price $11.10
Area 6
Wt. 16

STEEL CASEMENT WINDOWS

ZONE "C"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	A1		A2			A3		
11 3/16"								
PRICE	1.10		2.15			3.20		
AREA	1.5		3.0			4.5		
WEIGHT	6		13			19		
TYPE	B1	B114	B2	B214	B224	B3	B314	B324
2'-1 5/16"								
PRICE	2.65	8.50	5.30	11.15	17.00	7.95	13.80	19.60
AREA	3.5	3.5	7	7	7	10.5	10.5	10.5
WEIGHT	9	17	19	27	35	29	37	45
TYPE	C1	C116	C2	C216	C226	C3	C316	C326
3'-0 5/8"								
PRICE	3.40	9.35	6.80	12.70	18.65	10.20	16.10	22.05
AREA	5	5	10	10	10	15	15	15
WEIGHT	13	23	28	37	47	42	52	61
TYPE	AC1	AC116	AC2	AC216	AC226	AC3	AC316	AC326
3'-11 15/16"								
PRICE	4.45	10.40	8.90	14.85	20.80	13.35	19.30	25.25
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	21	31	44	54	63	67	77	86
TYPE	D1	D118	D2	D218	D228	D3	D318	D328
3'-11 15/16"								
PRICE	4.10	10.20	8.15	14.25	20.35	12.25	18.35	24.45
AREA	6.5	6.5	13	13	13	19.5	19.5	19.5
WEIGHT	16	27	34	45	56	52	63	74
TYPE	AD1	AD118	AD2	AD218	AD228	AD3	AD318	AD328
4'-11 1/4"								
PRICE	5.15	11.25	10.30	16.40	22.45	15.40	21.50	27.60
AREA	8	8	16	16	16	24	24	24
WEIGHT	24	35	51	62	73	77	88	99

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "C"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

4'-10 1/8" 3-UNITS	6'-5 1/2" 4-UNITS				WIDTH HEIGHT
	A4				TYPE 0'-11 3/16"
	4.25				PRICE
	6				AREA
	26				WEIGHT
B334	B4	B424	B424	B444	TYPE 2'-1 5/16"
25.45	10.60	22.25	22.25	33.90	PRICE
10.5	13.5	13.5	13.5	13.5	AREA
53	39	55	55	71	WEIGHT
C336	C4	C426	C426	C446	TYPE 3'-0 5/8"
28.00	13.55	25.55	25.55	38.80	PRICE
15	20	20	20	20	AREA
71	57	76	76	95	WEIGHT
AC336	AC4	AC426	AC426	AC446	TYPE 3'-11 15/16"
31.15	17.80	29.70	29.70	41.55	PRICE
19.5	26	26	26	26	AREA
96	90	109	109	128	WEIGHT
D338	D4	D428	D428	D448	TYPE 3'-11 15/16"
30.55	16.35	28.50	28.50	40.20	PRICE
19.5	26	26	26	26	AREA
85	70	92	92	114	WEIGHT
AD338	AD4	AD428	AD428	AD448	TYPE 4'-11 1/4"
33.70	20.55	32.75	32.75	44.95	PRICE
24	32	32	32	32	AREA
110	104	126	126	148	WEIGHT

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "C"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

WIDTH	1'-7 3/8"		3'-2 3/4"			4'-10 1/8"		
HEIGHT	1 UNIT		2 UNITS			3 UNITS		
TYPE	E1	E1110	E2	E2110	E2210	E3	E3110	E3210
4'-11 1/4"								
PRICE	4.70	11.00	9.45	15.75	22.05	14.15	20.45	26.75
AREA	8	8	16	16	16	24	24	24
WEIGHT	19	32	40	53	66	61	74	87
TYPE	BC1	BC11416	BC2	BC21416	BC22426	BC3	BC31416	BC32426
5'-2 1/16"								
PRICE	6.05	17.80	12.10	23.85	35.60	18.15	29.90	41.65
AREA	8.5	8.5	17	17	17	25.5	25.5	25.5
WEIGHT	24	42	51	68	86	77	95	112
TYPE	AE1	AE1110	AE2	AE2110	AE2210	AE3	AE3110	AE3210
5'-10 9/16"								
PRICE	5.80	12.10	11.55	17.85	24.15	17.35	23.65	29.95
AREA	9.5	9.5	19	19	19	28.5	28.5	28.5
WEIGHT	27	40	56	69	82	86	99	112
TYPE	BD1	BD11418	BD2	BD21418	BD22428	BD3	BD31418	BD32428
6'-1 3/8"								
PRICE	6.75	18.65	13.45	25.40	37.30	20.20	32.10	44.05
AREA	10	10	20	20	20	30	30	30
WEIGHT	27	46	57	76	95	87	106	125
TYPE	BE1	BE114110	BE2	BE214110	BE224210	BE3	BE314110	BE324210
7'-0 11/16"								
PRICE	7.35	19.50	14.75	26.85	39.00	22.10	34.25	46.40
AREA	11.5	11.5	23	23	23	34.5	34.5	34.5
WEIGHT	30	51	63	84	105	96	117	138

WEIGHTS SHOWN ARE NET

STEEL CASEMENT WINDOWS

ZONE "C"

VERTICAL & HORIZONTAL MULLIONS INCLUDED IN ALL COMBINATIONS

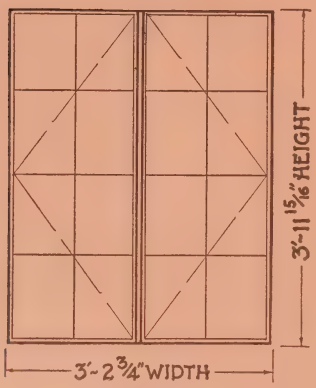
4'-10⅛" 3 UNITS	6'-5½" 4 UNITS				WIDTH / HEIGHT
E3310	E4	E4210	E4210	E4410	TYPE 4'-11¼"
33.05	18.85	31.50	31.50	44.10	PRICE
24	32	32	32	32	AREA
100	82	108	108	134	WEIGHT
BC33436	BC4	BC42426	BC42426	BC44446	TYPE 5'-2 1/16"
53.40	24.15	47.70	47.70	71.25	PRICE
25.5	33.5	33.5	33.5	33.5	AREA
130	104	139	139	174	WEIGHT
AE3310	AE4	AE4210	AE4210	AE4410	TYPE 5'-10 9/16"
36.25	23.10	35.70	35.70	48.35	PRICE
28.5	38	38	38	38	AREA
125	115	141	141	167	WEIGHT
BD33438	BD4	BD42428	BD42428	BD44448	TYPE 6'-1⅜"
55.95	26.90	50.75	50.75	74.60	PRICE
30	39.5	39.5	39.5	39.5	AREA
144	117	155	155	193	WEIGHT
BE334310	BE4	BE424210	BE424210	BE44410	TYPE 7'-0 11/16"
58.50	29.45	53.75	53.75	78.00	PRICE
34.5	45.5	45.5	45.5	45.5	AREA
159	129	171	171	213	WEIGHT

WEIGHTS SHOWN ARE NET

DOUBLE STEEL CASEMENTS

(Without Mullion)

ZONE "C"



PRICE $38.00

AREA 13

Weight 34

Double Casement Units (without Vertical Mullions) are designed for use in connection with Standard Casement Units for installations requiring maximum unobstructed opening, such as exits to fire escapes. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Glass size 8"x11".

Only the above size Double Casement will be furnished.

Double Casements are made up on order only by Youngstown factory. Minimum Shipping Date, 4 weeks. See Drafting Room Standards for details.

STEEL CASEMENT WINDOW HARDWARE

ZONE "C"

Casement Window prices include the furnishing of standard adjustable friction stays and malleable cam handles for all units. Also malleable stay bars for hinged transom units when specified.

Cleaning hinges will be furnished without additional charge when specifically called for.

HARDWARE PRICES

(When Purchased Separately)

Malleable Cam Handle	List each—	$ .50
Bronze Cam Handle	List each—	1.75
Adjustable Friction Stay	List each—	1.75
Malleable Flexostay	List each—	3.25
Bronze Flexostay	List each—	5.25
Malleable Stay Bar for Transom	List each—	.50

EXTRAS

These amounts must be added to Casement Window prices when the following items are required. Do not deduct for standard hardware.

HARDWARE:

Bronze Cam Handle (instead of Malleable). List each—$1.25

Malleable Flexo-stay—
(Adjustable friction stay omitted)....List each— 1.50

Bronze Flexo-stay—
(Adjustable friction stay omitted).....List each— 3.50

JAMB ANGLES, HEAD AND SUB-SILL MEMBERS:

Complete Set for any Casement Combination

Add to price of combination.....List 10%

Add to weight of combination.....20%

When figured in large quantities or as separate items price same from list on page 74.

COPPER WEATHERSTRIP—STD. SECTION:

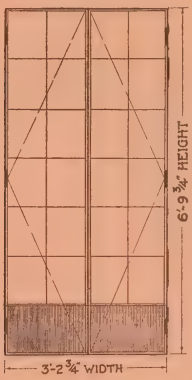
Material only, list per lin. ft..... .08

STEEL CASEMENT WINDOW ACCESSORIES
ZONE "C"

Items	Length	Price	Weight
JAMB ANGLES:			
1 light high .....each	10-15/16"	.22	1
2 lights high .....each	2' 1- 1/16"	.29	1.5
3 lights high .....each	3' 0-3/8"	.41	2.5
4 lights high .....each	3'11-11/16"	.54	3.5
5 lights high .....each	4'-11"	.64	4.0
Jamb Angles prices separately. 2 required per opening.			
SUB-SILL:			
1 light wide .....each	1'-1-1/16"	.20	1
2 lights wide .....each	1'-7 3/8"	.25	1.5
4 lights wide .....each	3'-2 3/4"	.34	3
6 lights wide .....each	4'-10 1/4"	.47	5
8 lights wide .....each	6'-5 1/2"	.55	7
Sub-Sill members are continuous.			
HORIZONTAL MULLION OR HEAD DRIP:			
1 light wide .....each	1'-1-1/16"	.25	1.5
2 lights wide .....each	1'-7 3/8"	.29	2
4 lights wide .....each	3'-2 3/4"	.54	4
6 lights wide .....each	4'-10 1/4"	.78	6
8 lights wide .....each	6'-5 1/2"	1.01	8
Horizontal Mullions are required to separate units which are placed one above the other. Head Drips and Horizontal Mullions are identical and provide weathering in either capacity.			
STANDARD VERTICAL MULLION:			
1 light high .....each	10-15/16"	.17	5
2 lights high .....each	2'-1-1/16"	.25	1.0
3 lights high .....each	3'-0 3/8"	.29	1.5
4 lights high .....each	3'-11-11/16"	.38	2.0
5 lights high .....each	4'-11"	.41	2.5
SPECIAL VERTICAL T MULLION:			
TAC—3 light high & 1 light transom	4'-2-1/16"	1.00	5
TAD—4 light high & 1 light transom	5'-1 3/8"	1.20	6
TAE—5 light high & 1 light transom	6'-0-11/16"	1.45	7
TBC—3 light high & 2 light transom	5'-4-3/16"	1.28	6
TBD—4 light high & 2 light transom	6'-3 1/2"	1.50	7
TBE—5 light high & 2 light transom	7'-2-13/16"	1.70	8.5
TCD—4 light high & 3 light transom	7'-2-13/16"	1.70	8.5
TCE—5 light high & 3 light transom	8'-2 5/8"	1.95	9.5
Special Vertical T Mullions are required for all units having transoms when the width of opening exceeds 5 units wide. Add 1/8" to opening width for each T Mullion introduced.			

STEEL CASEMENT DOORS

ZONE "C"



PRICE $85.00

AREA 22

WEIGHT 130

Casement Doors are made from the same sections, and of the same glass size as standard casement windows. This permits the use of casement windows in conjunction with casement doors as side lights and as rectangular or curved head transoms. Casement doors are appropriate for use as connecting doors for interior use or for exterior openings when locking from the interior only is desired. Keyed locks cannot be provided. Standard hardware consists of bronze handles and rust-proof steel cremone bolt. Only the above size casement door will be furnished. Casement Doors are stocked by Youngstown Warehouse only. Glass size 8"x11".

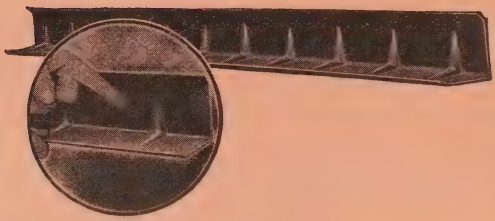
Standard 4 light wide Casement Head Drip may be used over Casement Doors. Add ⅛" to door height and price from page 74.

See Drafting Room Standards for details.

PRESSED STEEL LINTELS

Stock Sizes

ZONE "C"



Length	Price	Weight
2′6″	$ .75	7.0 lbs.
3′0″	.90	8.3 lbs.
3′6″	1.05	9.7 lbs.
4′0″	1.20	11.0 lbs.
4′6″	1.30	12.0 lbs.
5′0″	1.40	13.7 lbs.
5′6″	1.60	15.0 lbs.

NOTES

Pressed Steel Lintels are suitable for masonry openings up to 4′-10″ wide except where concentrated loads occur directly over the opening.

Above prices are for single lintels.

Lintels receive one dip coat of black paint at factory.

HORIZONTALLY PIVOTED STEEL WINDOWS

ZONE "C"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

Ventilators are horizontally pivoted 2" above center.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and Putty are not included in window prices. For best results use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Spring Latch and Chain, list per vent.....$1.25

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicate types normally carried in stock by our warehouses and by Dealers. All other types are shipped from Youngstown.

HORIZONTALLY PIVOTED STEEL WINDOWS

—12"x18" GLASS SIZE 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS			4'-2 3/8" 4-LIGHTS	
TYPE		* 32	*32160	ZONE "C"	* 42	42140
3'-1 5/8"						
PRICE / AREA		3.90 / 10	8.00 / 10		4.60 / 13	7.75 / 13
TYPE	23141	* 33	*33161		* 43	43141
4'-8"						
PRICE / AREA	7.35 / 10	4.85 / 15	8.80 / 15		6.00 / 20	9.20 / 20
TYPE		* 34	*34161		44	44141
6'-2 3/8"						
PRICE / AREA		6.05 / 20	10.00 / 20		7.55 / 26	10.65 / 26
TYPE		* 35	*35161	35162	45	45141
7'-8 3/4"						
PRICE / AREA		7.40 / 25	11.20 / 25	11.20 / 25	9.10 / 33	12.10 / 33
TYPE		36	36161	362614	46	46141
9'-3 1/8"						
PRICE / AREA		8.60 / 29	12.30 / 29	17.85 / 29	10.65 / 39	13.60 / 39
TYPE				372614	47	
10'-9 1/2"						
PRICE / AREA				19.20 / 34	12.45 / 45	

VERTICAL MULLIONS

NO. LTS HIGH	PRICE	AREA
2	1.20	.5
3	1.65	.8
4	2.05	1.0
5	2.55	1.3
6	2.95	1.5
7	3.45	1.8

WEIGHT FACTOR 8

HORIZONTALLY PIVOTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

4'-2 3/8" 4-LIGHTS		5'-2 3/4" 5-LIGHTS			6'-3 1/8" 6-LTS	WIDTH HEIGHT
*42180		*52	*52160	ZONE "C"	62180	TYPE 3'-1 5/8"
9.00 / 13		5.30 / 16	9.20 / 16		10.55 / 20	PRICE AREA
*43181		53	*53161		63181	TYPE 4'-8"
10.50 / 20		7.10 / 24	10.95 / 24		12.55 / 29	PRICE AREA
*44181		54	*54161		64181	TYPE 6'-2 3/8"
11.85 / 26		8.95 / 32	12.65 / 32		14.55 / 39	PRICE AREA
*45181	45182	55	*55161	55162	65181	TYPE 7'-8 3/4"
13.30 / 33	13.30 / 33	10.85 / 40	14.35 / 40	14.35 / 40	16.65 / 48	PRICE AREA
46181	462814	56	56161	562614		TYPE 9'-3 1/8"
14.75 / 39	21.10 / 39	12.80 / 48	16.15 / 48	21.75 / 48		PRICE AREA
	472814	* INDICATES DEALER AND WAREHOUSE STOCK TYPES DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES		572614		TYPE 10'-9 1/2"
	22.75 / 45			23.75 / 56		PRICE AREA

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

WIDTH / HEIGHT	2'-5 5/8" 2-LTS	3'-8" 3-LIGHTS			4'-10 3/8" 4-LIGHTS	
TYPE		*32	*32160	ZONE "C"	*42	42140
3'-5 5/8"						
PRICE		4.15	8.45		4.80	8.35
AREA		13	13		17	17
TYPE	*23141	*33	*33161		*43	43141
5'-2"						
PRICE	8.00	5.30	9.60		6.55	10.00
AREA	13	19	19		25	25
TYPE		*34	*34161		44	44141
6'-10 3/8"						
PRICE		6.70	10.85		8.25	11.60
AREA		25	25		33	33
TYPE		*35	*35161	35162	45	45141
8'-6 3/4"						
PRICE		8.05	12.15	12.15	10.00	13.25
AREA		31	31	31	42	42
TYPE		36	36161	362614	46	46141
10'-3 1/8"						
PRICE		9.45	13.45	19.55	11.55	14.90
AREA		38	38	38	50	50
TYPE	VERTICAL MULLIONS			372614	47	WEIGHT FACTOR 8
11'-11 1/2"						
PRICE				21.00	13.75	
AREA				44	58	

NO. LTS HIGH	PRICE	AREA
2	1.25	.6
3	1.75	.9
4	2.30	1.1
5	2.85	1.4
6	3.35	1.7
7	3.90	2.0

HORIZONTALLY PIVOTED STEEL WINDOWS

14"x20" GLASS SIZE 14"x20"

4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			7-3 1/8" 6-LTS	WIDTH HEIGHT
*42180		*52	*52160	ZONE "C"	62180	TYPE
9.75 17		5.75 21	10.00 21		11.45 25	3'-5 5/8" PRICE AREA
*43181		53	*53161		63181	TYPE
11.40 25		7.80 31	11.90 31		13.70 37	5'-2" PRICE AREA
*44181		54	*54161		64181	TYPE
12.90 33		9.90 42	13.85 42		16.00 50	6'-10 3/8" PRICE AREA
*45181	45182	55	*55161	55162	65181	TYPE
14.55 42	14.55 42	12.00 52	15.80 52	15.80 52	18.25 62	8'-6 3/4" PRICE AREA
46181	462814	56	56161	562614		TYPE
16.15 50	23.15 50	14.10 62	17.75 62	23.85 62		10'-3 1/8" PRICE AREA
	472814	*INDICATES DEALER AND WAREHOUSE STOCK TYPES. DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES		572614		TYPE
	25.00 58			26.05 58		11'-11 1/2" PRICE AREA

COMMERCIAL PROJECTED STEEL WINDOWS

ZONE "C"

All windows are viewed from the outside.

Window dimensions, ventilator locations or glass sizes must not be varied from types shown.

All 4 and 6 light ventilators Project Out and all 2 and 3 light ventilators Project In.

GLAZING:

Windows are designed for INSIDE glazing with putty only. Glass and putty are not included in window prices. For best results, use steel window red putty.

HARDWARE:

Window prices include standard erection fittings, spring wire glazing clips and ventilator hardware. No allowance for omission of these items. Orders must state clearly type of hardware required. Add extra for Automatic Spring Latch and Chain. List per vent.....$2.50

PAINT:

One dip coat of standard shop paint applied at factory.

WEIGHTS:

To secure weights of units, multiply list price by weight factor shown on charts.

SHIPMENTS:

*Indicates types normally carried in stock by our warehouses and by dealers. All other types are shipped from Youngstown.

Note Especially: Use same dimensions for multiple unit openings and mullion spacing as given on page 11 for Horizontally Pivoted Windows.

Nominal Glass sizes are same as shown on page 12.

COMMERCIAL PROJECTED STEEL WINDOWS

12"x18" GLASS SIZE 12"x18"

WIDTH / HEIGHT	2'-1 5/8" 2-LTS	3'-2" 3-LIGHTS		4'-2 3/8" 4 LTS		5'-2 3/4" 5-LIGHTS	
TYPE 3'-1 5/8"		32160 *	ZONE "C"	42140 *		52160 *	
PRICE / AREA		10.75 / 10		10.60 / 13		12.00 / 16	
TYPE 4'-8"	23141 *	33161 *		43141 *		53161 *	
PRICE / AREA	10.20 / 10	11.60 / 15		12.05 / 20		13.35 / 24	
TYPE 6'-2 3/8"		34161 *	3423602	44141 *	4422402	54161 *	5423602
PRICE / AREA		12.80 / 20	19.05 / 20	13.50 / 26	19.50 / 26	15.45 / 32	21.70 / 32
TYPE 7'-8 3/4"		35161 *	35162 / 3523602 *	45141 *	4522402 *	55161 *	55162 / 5523602
PRICE / AREA		14.00 / 25	14.00 / 25 / 20.25 / 25	14.95 / 33	20.95 / 33	17.25 / 40	17.25 / 40 / 23.45 / 40
TYPE 9'-3 1/8"		36161	362614 * / 3623603	46141	4622403	56161	562614 / 5623603
PRICE / AREA		15.15 / 29	23.55 / 29 / 21.40 / 29	16.45 / 39	22.45 / 39	19.00 / 48	27.45 / 48 / 25.20 / 48
TYPE 10'-9 1/2"		372614				572614	
PRICE / AREA		24.90 / 34				29.45 / 56	

VERTICAL MULLIONS

NO LTS HIGH	PRICE	AREA
2	1.20	.5
3	1.65	.8
4	2.05	1.0
5	2.55	1.3
6	2.95	1.5
7	3.45	1.8

* INDICATES DEALER AND WAREHOUSE STOCK TYPES

DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES

INDICATES VENTS OPENING OUT

INDICATES VENTS OPENING IN

WEIGHT FACTOR 6.4

COMMERCIAL PROJECTED STEEL WINDOWS

GLASS SIZE 14"x20" 14"x20"

2'-5 5/8" 2-LTS	3'-8" 3-LIGHTS			4'-10 3/8" 4-LIGHTS		6'-0 3/4" 5-LIGHTS			WIDTH / HEIGHT
	32160 *	ZONE "C"		42140 *		52160 *	* INDICATES DEALER AND WAREHOUSE STOCK TYPES. DIMENSIONS, GLASS SIZE AND ARRANGEMENT OF LIGHTS OR VENTS MUST NOT BE VARIED IN ANY RESPECT IN STANDARD TYPES. ▢ INDICATES VENTS OPENING OUT. ▢ INDICATES VENTS OPENING IN.		TYPE
	11.25			11.20		12.80			3'-5 5/8"
	13			17		21			PRICE AREA
23141 *	33161 *			43141 *		53161 *			TYPE
10.75	12.40			12.85		14.75			5'-2"
13	19			25		31			PRICE AREA
	34161 *		3423602	44141 *	4422402	54161 *	5423602		TYPE
	13.70		20.20	14.45	20.75	16.70	23.20		6'-10 3/8"
	25		25	33	33	42	42		PRICE AREA
	35161 *	35162	3523602 *	45141 *	4522402 *	55161 *	55162	5523602	TYPE
	15.00	15.00	21.50	16.10	22.35	18.65	18.65	25.15	8'-6 3/4"
	31	31	31	42	42	52	52	52	PRICE AREA
	36161	362614 *	3623603	46141	4622403	56161	562614	5623603	TYPE
	16.30	25.25	22.75	17.75	24.00	20.60	29.55	27.05	10'-3 1/8"
	38	38	38	50	50	62	62	62	PRICE AREA
	372614						572614		TYPE
	26.70						31.75		11'-11 1/2"
	44						73		PRICE AREA

VERTICAL MULLIONS

NO LTS HIGH	PRICE	AREA
2	1.25	.6
3	1.75	.9
4	2.30	1.1
5	2.85	1.4
6	3.35	1.7
7	3.90	2.0

WEIGHT FACTOR 6.4

STEEL DOORS AND FRAMES
STOCK TYPES
ZONE "C"

All Doors are viewed from the outside.

Door dimensions, glass sizes and arrangement of lights and plate panels must not be varied from types shown.

GLAZING ANGLES: Door lights are designed for INSIDE glazing with standard glazing angles.

HARDWARE: Swing Door prices include Set A (lever latch) or Set B (cylinder lock) hardware.

Slide Door prices include Set C (hasp and staple with track, hangers and trolleys—padlock can be used but not included.) Orders must state clearly the Handing and Swinging desired and should be marked Right or Left hand to Swing In or Out for Swing Doors and the direction of Slide for Slide Doors, all as viewed from outside.

PAINT: One dip coat of standard shop paint applied at factory.

SHIPMENTS: *Indicates types normally carried in stock by our Warehouses and by Dealers. Types 38 and 68 are shipped from Youngstown only.

FRAMES: Add for pressed steel door frames when required, according to prices given on pages 86 and 87.

See Drafting Room Standards for details.

BLANK DOOR LEAVES

(When Purchased Separately—without hardware, or preparation for same).

No.	Door Size	Price	Wt.
37	3'-0" x 7'-0"	$21.15	110
38	3'- 2⅜" x 7'-9"	23.10	120
48	3'-10¾" x 7'-9"	26.35	137
510	4'-10¾" x 9'9"	38.50	200

ASTRAGALS

(When Purchased Separately)

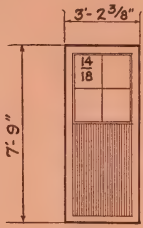
	Price	Wt.
Astragal for 7'-0" Door	$2.25	16
Astragal for 7'-9" Door	2.55	18
Astragal for 9'-9" Door	3.70	22

STEEL DOORS—STOCK TYPES
(Single Swing)

ZONE "C"

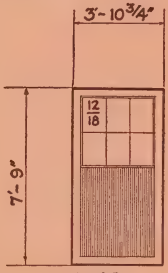
✱ 37

TYPE		37A	37D	37C
SWING	PRICE	29.15	40.80	
	WEIGHT	118	119	
FRAME	PRICE	13.40	13.40	
	WEIGHT	78	78	
SLIDE	PRICE			43.60
	WEIGHT			154



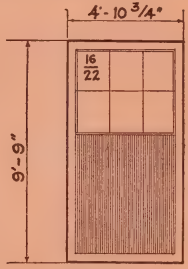
38

TYPE		38A	38D	38C
SWING	PRICE	31.10	42.75	
	WEIGHT	128	129	
FRAME	PRICE	14.75	14.75	
	WEIGHT	86	86	
SLIDE	PRICE			45.60
	WEIGHT			170



✱ 48

TYPE		48A	48D	48C
SWING	PRICE	34.35	46.00	
	WEIGHT	145	146	
FRAME	PRICE	15.05	15.05	
	WEIGHT	88	88	
SLIDE	PRICE			48.85
	WEIGHT			187



✱ 510

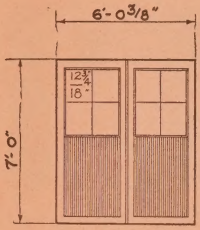
TYPE		510A	510D	510C
SWING	PRICE	48.10	65.45	
	WEIGHT	209	210	
FRAME	PRICE	17.65	17.65	
	WEIGHT	103	103	
SLIDE	PRICE			62.70
	WEIGHT			255

✱ INDICATES DEALERS AND WAREHOUSE STOCK TYPES - TYPE 38 AND 68 SHIPPED FROM YOUNGSTOWN.

HARDWARE INCLUDED IN DOOR PRICE:
- A INDICATES LEVER LATCH SET
- D " CYLINDER LOCK
- C " HASP & STAPLE WITH TRACK, HANGERS & TROLLEYS.

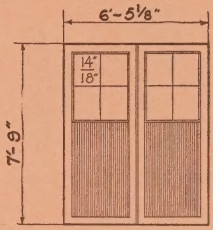
STEEL DOORS—STOCK TYPES
(Double Swing)

ZONE "C"



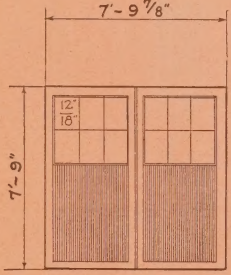
*67

TYPE		67A	67B	67C
SWING	PRICE	65.55	71.35	
	WEIGHT	249	250	
FRAME	PRICE	15.25	15.25	
	WEIGHT	89	89	
SLIDE	PRICE			86.60
	WEIGHT			320



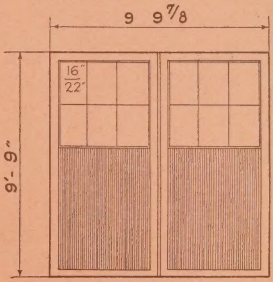
68

TYPE		68A	68B	68C
SWING	PRICE	69.75	75.55	
	WEIGHT	271	272	
FRAME	PRICE	16.60	16.60	
	WEIGHT	97	97	
SLIDE	PRICE			90.85
	WEIGHT			354



*88

TYPE		88A	88B	88C
SWING	PRICE	76.25	82.05	
	WEIGHT	305	306	
FRAME	PRICE	17.15	17.15	
	WEIGHT	99	99	
SLIDE	PRICE			98.50
	WEIGHT			388



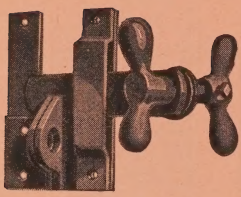
*1010

TYPE		1010A	1010B	1010C
SWING	PRICE	104.75	121.75	
	WEIGHT	438	439	
FRAME	PRICE	20.25	20.25	
	WEIGHT	118	118	
SLIDE	PRICE			125.90
	WEIGHT			528

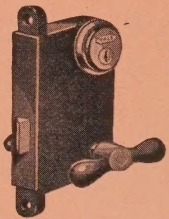
STANDARD HARDWARE FOR STEEL DOORS—STOCK TYPES

(When Purchased Separately)

ZONE "C"



Lever Latch Used in Set "A"



Cylinder Lock Used in Set "B"

Hasp and Staple Used in Set "C"

Set	Price	Wt.
37-A, 38-A, 48-A	$ 8.00	8
37-B, 38-B, 48-B	19.65	9
37-C	22.45	44
38-C, 48-C	22.50	50
510-A	9.60	9
510-B	26.95	10
510-C	24.20	55
67-A, 68-A, 88-A	21.00	13
67-B, 68-B, 88-B	26.80	14
67-C	42.05	84
68-C, 88-C	42.10	96
1010-A	24.05	16
1010-B	41.05	17
1010-C	45.20	106

The number indicates type of door the hardware is to be applied on, i. e.: 37-C Set is hardware required for 37-C door.

HARDWARE SETS

Include screws, bolts and nuts for attaching. Hardware Sets "A" have wrought steel lever latch (padlock can be used but not included). Sets "B" have mortise cylinder lock with 3 keys. Sets "C" for slide doors have hasp and staple with track, hangers and trolleys (padlock can be used but not included).